

Materials List for:

# Immunohistochemical Analysis in the Rat Central Nervous System and Peripheral Lymph Node Tissue Sections

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## Materials

| Name                                                                                                                                                                        | Company            | Catalog Number | Comments                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reagent</b>                                                                                                                                                              |                    |                |                                                                                                                                              |
| Isoflurane (Isofluran): 1-Chlor-2,2,2-trifluorethyl (difluormethyl ether) 2-Chlor-2-(difluormethoxy)-1,1,1-trifluorethan (C <sub>3</sub> H <sub>2</sub> ClF <sub>5</sub> O) | Baxter             | 1001936060     | Eye irradiation. Probably influences fertility and damages baby in uterus. Administer only in adequately equipped anesthetizing environment. |
| Sodiumchloride (NaCl)                                                                                                                                                       | Merck              | 1.0604         |                                                                                                                                              |
| Phosphate Buffer Saline (PBS), tablet                                                                                                                                       | Sigma-Aldrich      | P4417          |                                                                                                                                              |
| Paraformaldehyde (OH(CH <sub>2</sub> O) <sub>n</sub> H (n = 8 - 100)), 4% in 1x PBS                                                                                         | Apl pharma         | 34 24 28       | Health hazard. Corrosive. Flammable. Acute toxicity.                                                                                         |
| Ethanol ≥99.5%, absolute (CH <sub>3</sub> CH <sub>2</sub> OH)                                                                                                               | Sigma-Aldrich      | 459844-1L      | Flammable.                                                                                                                                   |
| Xylene (Xylenes, histological grade; C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub> )                                                                        | Sigma-Aldrich      | 534056         | Flammable. Acute toxicity.                                                                                                                   |
| Histo-Comp Paraffin Wax                                                                                                                                                     | Tissue-Tek         | V0-5-1001      |                                                                                                                                              |
| Adhesive Microscope Slides                                                                                                                                                  | Starfrost          | MIC-1040-W     |                                                                                                                                              |
| Xylo substitute XEM-200                                                                                                                                                     | Vogel GmbH         | ND-HS-200      | Respiratory sensitization. Carcinogenicity.                                                                                                  |
| α-CD8 (Ox-8) mouse anti-rat, primary antibody                                                                                                                               | AbD Serotec        | MCA48G         |                                                                                                                                              |
| α-Iba1 (AIF1) mouse anti-rat, primary antibody                                                                                                                              | Millipore          | MABN92         |                                                                                                                                              |
| α-CD68 (ED1) mouse anti-rat, primary antibody                                                                                                                               | AbD Serotec        | MCA341R        |                                                                                                                                              |
| α-eotaxin C-19 (CCL11) goat anti-rat, primary antibody                                                                                                                      | Santa Cruz BT      | SC-6181        |                                                                                                                                              |
| Alkaline phosphatase (AP)-conjugated secondary antibody                                                                                                                     | Dakopatts, Denmark | D0314          |                                                                                                                                              |
| Biotinylated secondary antibody                                                                                                                                             | Amersham Biotech   | RPN1025        |                                                                                                                                              |
| Avidin- horseradish peroxidase complex (HRP)                                                                                                                                | Sigma-Aldrich      | A3151          |                                                                                                                                              |
| Naphthol AS-MX phosphate (C <sub>19</sub> H <sub>18</sub> NO <sub>5</sub> P)                                                                                                | Sigma-Aldrich      | N4875-1G       | Acute toxicity.                                                                                                                              |
| Fast Blue RR Salt, Azoic Diazo No. 24 (C <sub>15</sub> H <sub>14</sub> ClN <sub>3</sub> O <sub>3</sub> x 1/2 ZnCl <sub>2</sub> )                                            | Sigma-Aldrich      | FBS25          |                                                                                                                                              |
| Levamisol hydrochloride (C <sub>11</sub> H <sub>13</sub> ClN <sub>2</sub> S)                                                                                                | Sigma-Aldrich      | 31742          | Acute toxicity.                                                                                                                              |

|                                                                                                                                                                     |                             |                           |                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------|------------------------------------------------------------------------|
| 3,3'-Diaminobenzidine tetrahydrochloride (DAB Chromogen)                                                                                                            | DAKO                        | S3000                     | Highly flammable. Toxic.                                               |
| Copper sulphate (CuSO <sub>4</sub> )                                                                                                                                | Merck                       | 1.02791                   | Acute toxicity. Environmental hazard.                                  |
| GelTol Aqueous Mounting Medium                                                                                                                                      | Thermo Electron Corporation | 230100                    |                                                                        |
| Hydrogen peroxide, 30% (H <sub>2</sub> O <sub>2</sub> )                                                                                                             | Merck                       | 107210                    | Acute toxicity.                                                        |
| Methanol (CH <sub>3</sub> OH)                                                                                                                                       | Fluka                       | 65543                     | Acute toxicity. Respiratory sensitization. Carcinogenicity. Flammable. |
| Tris (hydroxymethyl) aminomethane, TRIS base (C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub> )                                                                      | AppliChem                   | A1379                     | Skin and eye irritation.                                               |
| Tris Buffered Saline (TBS), tablet                                                                                                                                  | Sigma-Aldrich               | T5030                     |                                                                        |
| Di- Sodium hydrogen phosphate dihydrate (Na <sub>2</sub> HPO <sub>4</sub> x 2H <sub>2</sub> O)                                                                      | Merck                       | 1.0658                    |                                                                        |
| Sodium dihydrogen phosphate monohydrate (NaH <sub>2</sub> PO <sub>4</sub> x 1H <sub>2</sub> O)                                                                      | Merck                       | 1.06346                   |                                                                        |
| Fetal calf serum (FCS)                                                                                                                                              | Cambrex BioScience          | DE-14-802F                |                                                                        |
| DAKO cytation wash buffer 10x                                                                                                                                       | DAKO                        | S3006                     | Should be stored at 2-8 °C to inhibit bacterial growth. Avoid foaming. |
| <i>N,N</i> -Dimethylformamide; DMF (C <sub>3</sub> H <sub>7</sub> NO)                                                                                               | Fluka                       | 40250                     | Flammable. Acute toxicity.                                             |
| Glas coverslips 24 x 36 mm                                                                                                                                          | Menzel-Gläser               | BB024036A1                |                                                                        |
| Hydrochloric acid, conc. (HCl)                                                                                                                                      | Sigma-Aldrich               | 30721                     | Corrosive, irritant, permeator. Lung sensitizer (as acid mist). Toxic. |
| Hydrochloric acid solution volumetric, 2 M HCl (2 N)                                                                                                                | Fluka                       | 71826                     | Corrosive, irritant, permeator. Lung sensitizer (as acid mist). Toxic. |
| Sodium nitrite, ReagentPlus, ≥99.0% (NaNO <sub>2</sub> )                                                                                                            | Sigma-Aldrich               | S2252                     | Oxidant. Toxic. Dangerous for the environment.                         |
| Ethylenedinitrilotetraacetic acid disodium salt dihydrate (EDTA; C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub> x 2H <sub>2</sub> O) | Merck                       | 1.08454                   | Oral exposures may cause reproductive and developmental effects.       |
| <b>Equipment</b>                                                                                                                                                    |                             |                           |                                                                        |
| Tissue-Tek <sup>V.I.P</sup> Vacuum Infiltration Processor                                                                                                           | Sakura                      | 5902 VIP Jr. 115 V, 60 Hz |                                                                        |
| Hacker-Bright 8000 Series Base Sledge Microtome                                                                                                                     | Hacker instruments          |                           |                                                                        |
| Household food steamer                                                                                                                                              | Braun                       | MultiGourmet FS 20        |                                                                        |
| Light microscope                                                                                                                                                    | Leica Polyvar 2             |                           |                                                                        |