

Materials List for:

Enrichment and Purging of Human Embryonic Stem Cells by Detection of Cell Surface Antigens Using the Monoclonal Antibodies TG30 and GCTM-2

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Materials

Name	Company	Catalog Number	Comments
DMEM/F-12	Life Technologies	11320082	Long Name: Dulbecco's Modified Eagle Medium:Nutrient Mixture F-12
KOSR	Life Technologies	10828028	Long Name: Knockout Serum Replacement
GlutaMAX	Life Technologies	35050061	Long Name: GlutaMAX supplement
Nonessential Amino Acids	Life Technologies	11140050	Long Name: MEM Nonessential Amino Acids Solution
Mercaptoethanol	Life Technologies	21985023	Long Name: 2-Mercaptoethanol
DPBS	Life Technologies	14190250	Long Name: Dulbecco's Phosphate-Buffered Saline, no calcium, no magnesium
TrypLE Express	Life Technologies	12604039	Long Name: TrypLE Express (1x), no Phenol Red
AF-488	Life Technologies	A21131	Long Name: Alexa Fluor 488 goat anti-mouse IgG2a
AF-647	Life Technologies	A21238	Long Name: Alexa Fluor 647 goat anti-mouse IgM
PE-anti IgG2a	Life Technologies	P21139	Long Name: R-Phycoerythrin Goat Anti-Mouse IgG2a (γ2a) Conjugate
DMEM	Life Technologies	11965-092	Long Name: Dulbecco's Modified Eagle Medium, high glucose
Pen/Strep	Life Technologies	15140-122	Long Name: Penicillin-Streptomycin, Liquid
Distilled Water	Life Technologies	15230-089.	Long Name: Sterile Distilled Water
PI	SIGMA	P4864	Long Name: Propidium iodide solution
FBS	SIGMA	12203C	Long Name: Fetal Bovine Serum
Gelatin	SIGMA	G-1890	Long Name: Gelatin from porcine skin
Human FGF-2	Millipore	GF003AF-100UG	Long Name: Fibroblast Growth Factor basic, human recombinant, animal-free
Filter 0.22 μm	Millipore	SCGPU02RE	Long Name: Stericup-GP, 0.22 μm, polyethersulfone, 250 ml, radio-sterilized
70 μm Cell Strainer	Becton Dickinson	352350	Long Name: Cell strainer with 70 μm Nylon mesh

35 µm Lid cell strainer, 5 ml tube	Becton Dickinson	352235	Long Name: 5 ml polystyrene round bottom test tube, with a cell strainer cap (35 µm)
5 ml Polystyrene round bottom test tube	Becton Dickinson	352054	Long Name: 5 ml polystyrene round bottom test tube, sterile
IgG2a Isotype Control	Becton Dickinson	554126	Long Name: Purified Mouse IgG2a, κ Isotype Control
IgM Isotype Control	Becton Dickinson	553472	Long Name: Purified Mouse IgM, κ Isotype Control
PE-CD90.2	Becton Dickinson	553014	Long Name: PE Rat Anti-Mouse CD90.2
8-peaks calibration	Becton Dickinson	559123	Long Name: Rainbow Calibration Particles (8 peaks)
50 ml sterile Polypropylene tube	Greiner Bio-One	227261	Long Name: 50 ml Polypropylene tube with conical bottom, Sterile
T75 flask	Greiner Bio-One	658175	Long Name: CELLSTAR Filter Cap Cell Culture 75 cm ² Flasks
TG30	Merck Millipore	MAB4427	Long Name: TG30 Antibody, clone TG30
GCTM-2	Merck Millipore	MAB4346	Long Name: GCTM-2 is not commercially available but TG343 and equivalent monoclonal antibody is

Table 4. List of materials and reagent

FACS machine	Becton Dickinson		FACSVantage SE with FACSDiva option
Inverted microscope	Olympus		IX71

Table 5. List of equipment.