

Materials List for:

Conversion of a Capture ELISA to a Luminex xMAP Assay using a Multiplex Antibody Screening Method

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Materials

Name	Company	Catalog Number	Comments
Human TNF- α /TNFSF1A DuoSet ELISA kit	R D Systems	DY210	Includes monoclonal and biotin coupled polyclonal antibodies and recombinant TNF- α protein standard
Monoclonal Antibody to TNF- α	Abcam	Ab18696	Capture Antibody, clone CH8820
Monoclonal Antibody to TNF- α	Abcam	Ab16166	Biotin coupled Detection Antibody, clone AS1
TNF alpha protein	Abcam	Ab9642	Recombinant TNF- α protein standard
Monoclonal Antibody to TNF- α	Novus	NBP1-50115	Capture Antibody, clone 4H31
Monoclonal Antibody to TNF- α	Novus	NB100-78162	Biotin coupled Detection Antibody, clone MAb11
TNF alpha protein	Novus	NBC1-18460	Recombinant TNF- α protein standard
Monoclonal Antibody to TNF- α	EMD Millipore	MAB1141	Capture Antibody, clone 3C7.2
Polyclonal Antibody to TNF- α	EMD Millipore	654250	Rabbit polyclonal Detection Antibody
Streptavidin-Phyc-rythrin	Moss	SAPE-001	Fluorescent reporter reagent for Luminex xMAP Assay
MAGPIX w/ xPONENT Software	Luminex Corporation	MAGPIX-XPONENT	Luminex Instrument
xMAP Antibody Coupling (AbC) Kit	Luminex Corporation	40-50016	Includes EDC reagent, Sulfo-NHS reagent, activation buffer, wash buffer, 1.5 mL reaction tubes, and disposable pipettes
MagPlex Microspheres, Low Concentration	Luminex Corporation	MC10012-ID, MC10013-ID, MC10014-ID, MC10015-ID	Low concentration beads (@ 2.5 x 10 ⁶ bead/mL)
EZ-Link Sulfo-NHS-LC-Biotin	Thermo Fisher	PI-21335	Biotinylation kit for unmodified detection antibody
Tecan Infinite F200 Reader	Tecan		ELISA plate reader
Phosphate Buffered Saline	Sigma-Aldrich	P-3688	1% PBS-BSA, Assay Buffer
One-Pint Compact Ultrasonic Cleaner, 115 VAC	Cole-Parmer	WU-08849-00	Produce an effective operating frequency of 55 kHz
Magnetic Tube Separator	Luminex Corporation	CN-0288-01	For single 1.5mL tube magnetic separation in coupling wash steps
Magnetic Plate Separator	Luminex Corporation	CN-0269-01	For 96-well plate magnetic separation in assay wash steps