

Materials List for:

Determination of the Relative Cell Surface and Total Expression of Recombinant Ion Channels Using Flow Cytometry

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Materials

Name	Company	Catalog Number	Comments
Q5 Site-Directed Mutagenesis Kit	New England Biolabs	E0554S	Can be substitute with QuickChange site-directed mutagenesis Kit (Agilent, #200523).
Tubes 1.5 ml	Sarstedt	72-690-001	
Tubes 15 ml	Sarstedt	62-554-002	
Disposable graduated Transfer Pipets	VWR	160001-192	
100 mm culture dish	Corning	430167	For standard culture of HEKT cells.
35 mm culture dish	Falcon	353001	For standard culture of HEKT cells.
Serological pipette 1 ml	Sarstedt	86.1251.001	
Serological pipette 5 ml	Sarstedt	86.1253.001	
Serological pipette 10 ml	Sarstedt	86.1254.001	
Serological pipette 25 ml	Sarstedt	86.1285.001	
Dulbecco's high-glucose medium	Life Technologies	12100-046	Warm in 37 °C water bath before use.
Fetal Bovine Serum, qualified, heat inactivated, US origin	Life Technologies	16140-071	
Penicillin-Streptomycin (10,000 U/ml)	Life Technologies	15140-122	
Lipofectamine 2000	Life Technologies	11668-019	For liposomal transfection. Can be substituted with calcium phosphate transfection.
Opti-MEM I Reduced Serum Medium	Life Technologies	31985-070	Warm in 37 °C water bath before use.
Trypsin-EDTA (1x) 0.05%, phenol red	Life Technologies	25300-062	
1.5 ml microtubes	Sarstedt	72.690.001	
Phosphate Buffered Saline 1x	Fisher	BP661-10	Can be "home-made".
Anti-HA FITC conjugated antibody	Sigma	H7411	
IgG1-FITC Isotype Control antibody	Sigma	F6397	
BD Cytotfix/Cytoperm Fixation/Permeabilization Solution Kit	BD Biosciences	554714	Fixation/Permeabilization. Permeabilization/Wash solution, store at 4 °C.
Hemocytometer	Fisher	49105161	
Trypan Blue	Fisher	15250061	To access cell viability.

Refrigerated Microcentrifuge, 5430R	Eppendorf	A14H172200	
Forma Steri-Cycle CO ₂ Incubator	Fisher	370	
Laboratory Platform Rocker	Fisher	545034	
Water Bath	VWR	89032-216	
BD FACSAria III	BD Biosciences	648282	Flow cytometer.
FlowJo Software v10	FlowJo	FlowJo v10 Dongle	For data analysis.