Human PAR2 Antibody

Monoclonal Mouse IgG_{2A} Clone # 344222

Catalog Number: MAB3949

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PAR2. Stains human PAR2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG_{2A} Clone # 344222
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human PAR2 Accession # P55085
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

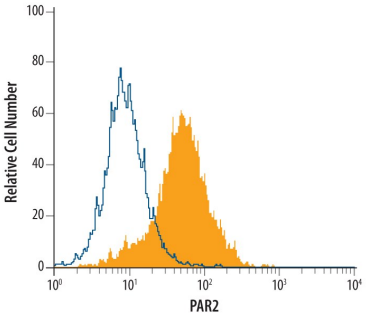
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

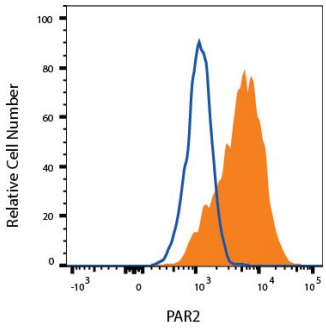
DATA

Flow Cytometry



Detection of PAR2 in HT-29 Human Cell Line by Flow Cytometry. HT-29 human colon adenocarcinoma cell line was stained with Mouse Anti-Human PAR2 Monoclonal Antibody (Catalog # MAB3949, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab')$_2$ Secondary Antibody (Catalog # F0102B).

Flow Cytometry



Detection of PAR2 in PC-3 cells by Flow Cytometry. PC-3 cells were stained with Mouse Anti-Human PAR2 Monoclonal Antibody (Catalog # MAB3949, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Protease-Activated Receptor 2 (PAR2) is a protease activated 7-transmembrane G-protein-coupled receptor. Human PAR2 contains a cleavage site for trypsin, mast cell tryptase or coagulation factor VIIa or Xa, 11 amino acids (aa) C-terminal to the signal sequence. Cleavage creates a tethered ligand that activates the 361 aa receptor. PAR2 is expressed in kidney, pancreas, stomach, intestine, airway, skin, bladder and brain; activation stimulates release of inflammatory and nociceptive mediators. PAR2 is downregulated by ubiquination, endocytosis and degradation. Mature human PAR2 shows 78% amino acid identity with mouse PAR2 over the extracellular portions.

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