Human PAR2 PE-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 344222

Catalog Number: FAB3949P

100 TESTS

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
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

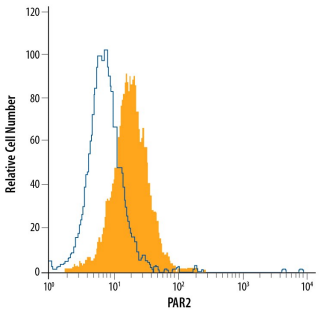
APPLICATIONS

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	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of PAR2 in HT-29 Human Colon Adenocarcinoma Cell Line by Flow Cytometry. HT-29 human colon adenocarcinoma cell line was stained with Mouse Anti-Human PAR2 PE-conjugated Monoclonal Antibody (Catalog # FAB3949P, filled histogram) or isotype control antibody (Catalog # IC003P, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

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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