

DESCRIPTION

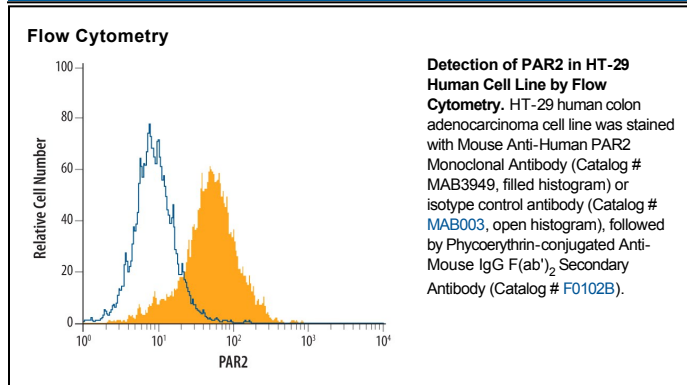
Species Reactivity	Human
Specificity	Detects human PAR2. Stains human PAR2 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 344222
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human PAR2 Accession # P55085
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	2.5 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



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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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 ubiquitination, endocytosis and degradation. Mature human PAR2 shows 78% amino acid identity with mouse PAR2 over the extracellular portions.