

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human PAR2. Stains human PAR2 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 344222
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human PAR2 Accession # P55085
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HT-29 human colon adenocarcinoma cell line

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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.

## PRODUCT SPECIFIC NOTICES

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