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#6976

PAR2 (D61D5) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P55085	Entrez-Gene Id: 2150
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	PAR2 (D61D5) Rabbit mAb recognizes endogenous levels of total PAR2 protein. The major band detected runs at 32 kDa, the higher molecular weight smear is due to glycosylation.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly44 of human PAR2 protein.	
Background	PAR2 (F2RL1) belongs to the PAR (Protease-activated Receptor) family of G protein-coupled receptors. These membrane receptors are activated through N-terminal cleavage of the receptor by a serine protease such as thrombin, trypsin, or matrix metalloproteinases (1,2). This cleavage exposes the 'tethered-ligand' fragment of the receptor, which binds to a second extracellular loop of the receptor and leads to receptor activation. PAR2 is specifically activated by trypsin or trypsin-like proteases. Activated PAR2 stimulates phosphoinositide hydrolysis and calcium mobilization, interacts with β-arrestin, and eventually leads to ERK activation (3). PAR2 expression and activation are mainly associated with inflammatory diseases (3), but may also play a role in cancer development (4,5).	
Background References	<ol style="list-style-type: none"> Macfarlane, S.R. et al. (2001) <i>Pharmacol Rev</i> 53, 245-82. Ossovskaia, V.S. and Bunnett, N.W. (2004) <i>Physiol Rev</i> 84, 579-621. Bushell, T. (2007) <i>J Physiol</i> 581, 7-16. Su, S. et al. (2009) <i>Oncogene</i> 28, 3047-57. Gessler, F. et al. (2010) <i>Neuroscience</i> 165, 1312-22. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human
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