

#6976 Store at -20°C

## PAR2 (D61D5) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	32	Rabbit IgG	#P55085	2150

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	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.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly44 of human PAR2 protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Macfarlane, S.R. et al. (2001) <i>Pharmacol Rev</i> 53, 245-82.</li> <li>2. Ossovskaya, V.S. and Bunnett, N.W. (2004) <i>Physiol Rev</i> 84, 579-621.</li> <li>3. Bushell, T. (2007) <i>J Physiol</i> 581, 7-16.</li> <li>4. Su, S. et al. (2009) <i>Oncogene</i> 28, 3047-57.</li> <li>5. Gessler, F. et al. (2010) <i>Neuroscience</i> 165, 1312-22.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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