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PAR2 (D61D5) Rabbit mAb Orders: Support: Web: 3 Trask Lane | Danvers | M.



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| Applications: W | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 32 | Source/Isotype: Rabbit IgG | UniProt ID: #P55085 | Entrez-Gene Id: 2150 | | |
|------------------------------|------------------|--|------------------------|--------------------------------------|-------------------------------|-------------------------|--|--|
| 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/Sen | sitivity | 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 / Purific | cation | 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 Re | eferences | 1. Macfarlane, S.R. et al. (2001) <i>Pharmacol Rev</i> 53, 245-82. 2. Ossovskaya, V.S. and Bunnett, N.W. (2004) <i>Physiol Rev</i> 84, 579-621. 3. Bushell, T. (2007) <i>J Physiol</i> 581, 7-16. 4. Su, S. et al. (2009) <i>Oncogene</i> 28, 3047-57. 5. Gessler, F. et al. (2010) <i>Neuroscience</i> 165, 1312-22. | | | | | | |
| Species Reactiv | vity | Species reactivity is de | etermined by testin | g in at least one approve | ed application (e.g., | western blot). | | |
| Western Blot B | 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 K | ey | W: Western Blotting | | | | | | |
| Cross-Reactivit | y Key | H: Human | | | | | | |
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