bs-1178R **[Primary Antibody]**

PAR-2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2150 **SWISS:** P55085

Target: PAR-2

Immunogen: KLH conjugated synthetic peptide derived from human PAR2: 101-150/397.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The Proteinase-activated receptor 2 (PAR2) is a member of the proteinase-activated receptor subfamily. It is activated through proteolytic exposure of an occult tethered ligand by trypsin and trypsin-like proteases. This is in contrast to other members of the subfamily which are activated by the protease thrombin. PAR2 has been implicated in acute inflammatory response, asthma, and pain transmission. PAR2 expression has been documented in the periphery. ESTs have been isolated from adrenal, brain, breast, heart/melanocyte/uterus, kidney, lung, and vessel libraries. Coagulation factor II (thrombin) receptor-like 1 (F2RL1)is a member of the large family of 7-transmembrane-region receptors that couple to guanosine-nucleotide-binding proteins. F2RL1 is also a member of the protease-activated receptor family. It is activated by trypsin, but not by thrombin. It is activated by proteolytic cleavage of its extracellular amino terminus. The new amino terminus functions as a tethered ligand and activates the receptor. The F2RL1 gene contains two exons and is widely expressed in human tissues. The predicted protein sequence is 83% identical to the mouse receptor sequence. [provided by RefSeq].

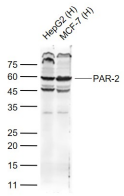
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Rat
(predicted: Mouse, Rabbit)

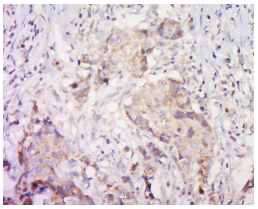
Predicted MW.: 40 kDa

Subcellular Location: Cell membrane

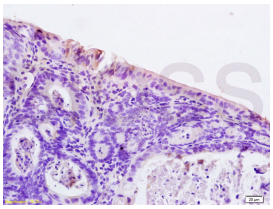
VALIDATION IMAGES



Sample: Lane 1: HepG2 (Human) Cell Lysate at 30 ug Lane 2: MCF-7 (Human) Cell Lysate at 30 ug Primary: Anti-PAR-2 (bs-1178R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 60 kD



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-APR-2 Polyclonal Antibody, Unconjugated(bs-1178R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat colitis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PAR-2 Polyclonal Antibody, Unconjugated(bs-1178R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=9.9]** Lei Yao. et al. Ginsenoside Rh4 alleviates idiopathic pulmonary fibrosis by enhancing the CXCL9–CXCR3 axis. Food Frontiers. 2024 Mar;: WB ;Mouse. 10.1002/fft2.388
- **[IF=2.74]** Hiroko Habuchi. et al. Bone marrow derived mast cells injected into the osteoarthritic knee joints of mice induced by sodium monoiodoacetate enhanced spontaneous pain through activation of PAR2 and action of extracellular ATP. Plos One. 2021 Jun;16(6):e0252590 IHC ;Mouse. 34086763
- **[IF=2.7]** Qian Zhang. et al. Rivaroxaban, a direct inhibitor of coagulation factor Xa, attenuates adverse cardiac remodeling in rats by regulating the PAR-2 and TGF-β1 signaling pathways. PEERJ. 2023 Sep;11:e16097 WB ;Rat. 37786576
- **[IF=2.07]** Chao G et al. Teprenone ameliorates diclofenac-induced small intestinal injury via inhibiting protease activated receptors 1 and 2 activityBiomarkers.2021 Feb;26(1):38-44. IHC ;Rat. 33176506
- **[IF=1.863]** Hideki Imano. et al. Rivaroxaban Attenuates Right Ventricular Remodeling in Rats with Pulmonary Arterial Hypertension. 2021 Feb 20 WB ;Human. 33612567