Data Sheet (Cat.No.TMAB-01331)

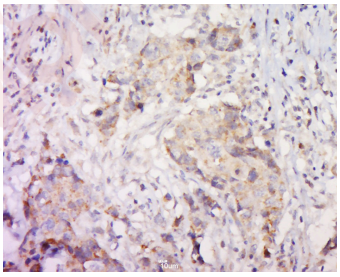
Anti-PAR2 Polyclonal Antibody

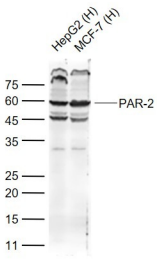
Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Rabbit)
Molecular Weight:	Theoretical: 40 kDa. Actual: 60 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-APR-2 Polyclonal Antibody, Unconjugated (TMAB-01331) 1:500, overnight at 4° C, followed by conjugation to the secondary antibody and DAb staining. 2. Sample: Lane 1: HepG2 (Human) Cell Lysate at 30 µg Lane 2: MCF-7 (Human) Cell Lysate at 30 µg Primary: Anti-PAR-2 (TMAB-01331) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 60 kDa





Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human PAR2

Antigen Species: Human

Gene ID: 2150

Uniprot ID: P55085

Synonyms: PAR2;GPR11

Research 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].

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