

## Anti-PAR-2 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 40 kDa. Actual: 59 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<p>1. Sample: Lane 1: Human HepG2 cell lysates Lane 2: Human Huvec cell lysates Lane 3: Human A549 cell lysates Lane 4: Human A431 cell lysates Lane 5: Human 293T cell lysates Primary: Anti-PAR-2 (TMAB-09979) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 59 kD</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PAR-2) Polyclonal Antibody, Unconjugated (TMAB-09979) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p> <p>3. Paraformaldehyde-fixed, paraffin embedded (human gastric); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PAR-2) Polyclonal Antibody, Unconjugated (TMAB-09979) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p> <p>4. Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PAR-2) Polyclonal Antibody, Unconjugated (TMAB-09979) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

## A DRUG SCREENING EXPERT

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### Properties

**Stability & Storage:** Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

**Shipping:** Shipping with blue ice.

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### Antigen Details

**Immunogen:** KLH conjugated synthetic peptide: human PAR-2

**Antigen Species:** Human

**Gene ID:** 2150

**Uniprot ID:** P55085

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### 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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