10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-F2R / Thrombin Receptor / PAR1 Antibody (N-Terminus)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17547

Product Information

Application	IHC-P
Primary Accession	P25116
Predicted	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47441
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	2149
Alias Symbol	F2R
Other Names	F2R, CF2R, Coagulation factor II receptor, PAR1, PAR-1, Thrombin receptor, TR, HTR, Protease-activated receptor 1
Target/Specificity	Human Thrombin Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GRIN1 (47%).
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-F2R / Thrombin Receptor / PAR1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	F2R (HGNC:3537)
Synonyms	CF2R, PAR1, TR
Function	High affinity receptor that binds the activated thrombin, leading to calcium release from intracellular stores (PubMed:1672265, PubMed:8136362). The thrombin-activated receptor signaling pathway is mediated through PTX-insensitive G proteins, activation of phospholipase C resulting in the production of 1D-myo-inositol 1,4,5- trisphosphate (InsP3) which binds to InsP3 receptors causing calcium release from the stores (By similarity). In astrocytes, the calcium released into the cytosol allows the Ca(2+)-dependent release of L- glutamate into the synaptic cleft through BEST1, that targets the neuronal postsynaptic GRIN2A/NMDAR receptor resulting in the synaptic plasticity regulation (By similarity). May play a role in platelets activation and

	in vascular development (PubMed:10079109). Mediates up- regulation of pro-inflammatory cytokines, such as MCP-1/CCL2 and IL6, triggered by coagulation factor Xa (F10) in cardiac fibroblasts and umbilical vein endothelial cells (PubMed:30568593, PubMed:34831181).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P26824}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P26824}
Tissue Location	Platelets and vascular endothelial cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.