

F2R / Thrombin Receptor / PAR1 Antibody
Goat Polyclonal Antibody
Catalog # ALS13107**Specification**

F2R / Thrombin Receptor / PAR1 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P25116
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	47kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

F2R / Thrombin Receptor / PAR1 Antibody - Additional Information**Gene ID** 2149**Other Names**

Proteinase-activated receptor 1, PAR-1, Coagulation factor II receptor, Thrombin receptor, F2R, CF2R, PAR1, TR

Target/Specificity

Human F2R / Thrombin receptor.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

F2R / Thrombin Receptor / PAR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

F2R / Thrombin Receptor / PAR1 Antibody - 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](http://www.uniprot.org/citations/1672265), PubMed: [8136362](http://www.uniprot.org/citations/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.

F2R / Thrombin Receptor / PAR1 Antibody - Protocols

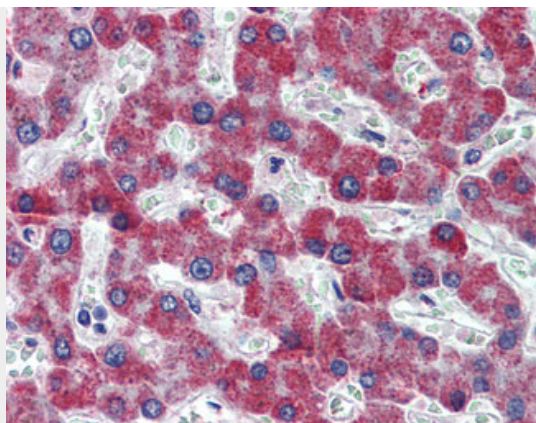
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

F2R / Thrombin Receptor / PAR1 Antibody - Images



Staining (0.5 ug/ml) of HeLa lysate (35 ug protein in RIPA buffer).



Anti-Thrombin Receptor antibody IHC of human liver.

F2R / Thrombin Receptor / PAR1 Antibody - Background

High affinity receptor for activated thrombin coupled to G proteins that stimulate phosphoinositide hydrolysis. May play a role in platelets activation and in vascular development.

F2R / Thrombin Receptor / PAR1 Antibody - References

- Vu T.-K.H.,et al.Cell 64:1057-1068(1991).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Shapiro M.J.,et al.J. Biol. Chem. 271:32874-32880(1996).
Kahn M.L.,et al.J. Clin. Invest. 103:879-887(1999).
Zania P.,et al.J. Pharmacol. Exp. Ther. 328:378-389(2009).