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

F2R Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18006A

Specification

F2R Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	P25116
Other Accession	NP_001983.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**47441**
Antigen Region	**35-63**

F2R Antibody (N-term) - 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
This F2R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-63 amino acids from the N-terminal region of human F2R.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
F2R Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

F2R Antibody (N-term) - 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}

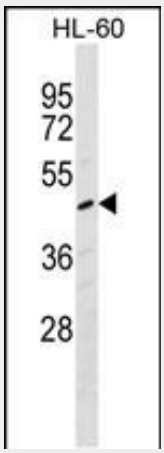
Tissue Location
Platelets and vascular endothelial cells.

F2R Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

F2R Antibody (N-term) - Images



F2R Antibody (N-term) (Cat. #AP18006a) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the F2R antibody detected the F2R protein (arrow).

F2R Antibody (N-term) - Background

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Coagulation factor II receptor is a 7-transmembrane receptor involved in the regulation of thrombotic response. Proteolytic cleavage leads to the activation of the receptor. F2R is a G-protein coupled receptor family member. [provided by RefSeq].

F2R Antibody (N-term) - References

Bae, J.S., et al. J. Biol. Chem. 285(45):34803-34812(2010)
Motovska, Z., et al. Atherosclerosis 212(2):548-552(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Burch, M.L., et al. J. Biol. Chem. 285(35):26798-26805(2010)
Gigante, B., et al. PLoS ONE 5 (6), E11300 (2010) :