

**Thrombin Receptor Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50051****Specification**

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**Thrombin Receptor Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P25116</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47 KDa
Antigen Region	10-39

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

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

**Dilution**

WB~~1:500- 1:1000

**Format**Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

**Thrombin Receptor 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:<a href="http://www.uniprot.org/citations/10079109" target="\_blank">10079109</a>). 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:<a href="http://www.uniprot.org/citations/30568593" target="\_blank">30568593</a>, PubMed:<a href="http://www.uniprot.org/citations/34831181" target="\_blank">34831181</a>).

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P26824}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P26824}

#### Tissue Location

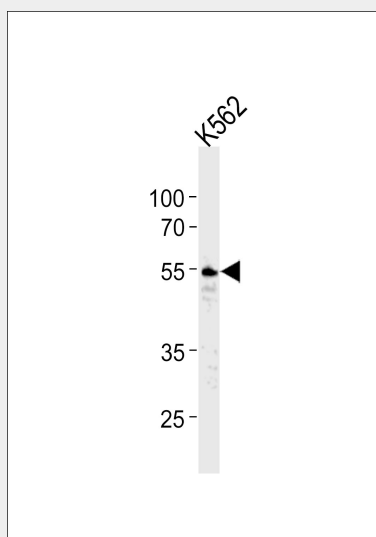
Platelets and vascular endothelial cells.

### Thrombin Receptor 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](#)

### Thrombin Receptor Antibody - Images



Western blot analysis of lysates from K562 cell line, using Thrombin Receptor Antibody (C0344). C0344 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg.

### Thrombin Receptor 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.

**Thrombin Receptor 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.  
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Kahn M.L.,et al.J. Clin. Invest. 103:879-887(1999).  
Zania P.,et al.J. Pharmacol. Exp. Ther. 328:378-389(2009).