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Datasheet for ABIN728743

## anti-PAR1 antibody (AA 251-350)

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### Overview

Quantity:	100 µL
Target:	PAR1 (F2R)
Binding Specificity:	AA 251-350
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PAR1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

### Target Details

Target:	PAR1 (F2R)
Alternative Name:	Thrombin receptor ( <a href="#">F2R Products</a> )

## Target Details

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Background: Synonyms: TR, HTR, CF2R, PAR1, PAR-1, Proteinase-activated receptor 1, Coagulation factor II receptor, Thrombin receptor, F2R

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.

Gene ID: 2149

UniProt: [P25116](#)

Pathways: [Nuclear Receptor Transcription Pathway](#), [Skeletal Muscle Fiber Development](#), [Positive Regulation of Endopeptidase Activity](#), [Protein targeting to Nucleus](#)

## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

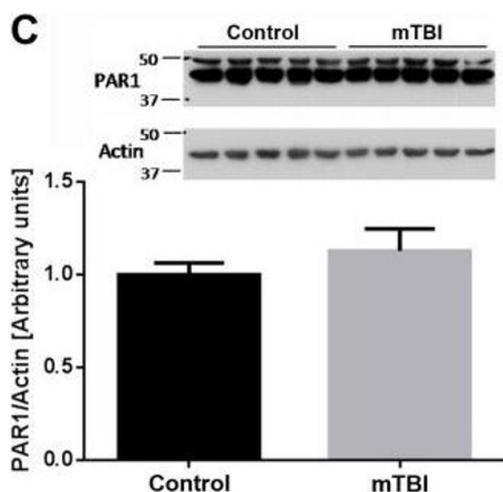
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

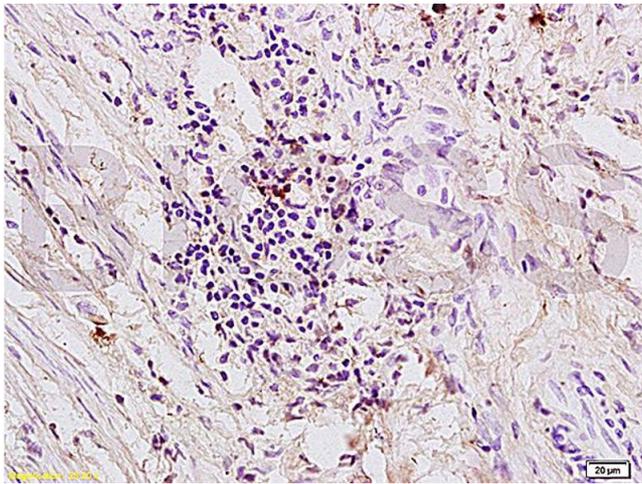
- Product cited in: Posthuma, Posma, Schep, Bender, van Oerle, van der Wal, Ten Cate, Spronk: "Protease-activated receptors are potential regulators in the development of arterial endofibrosis in high-performance athletes." in: **Journal of vascular surgery**, Vol. 69, Issue 4, pp. 1243-1250, (2019) ([PubMed](#)).
- Ben Shimon, Zeimer, Shavit Stein, Artan-Furman, Harnof, Chapman, Eisenkraft, Pick, Maggio: "Recovery from trauma induced amnesia correlates with normalization of thrombin activity in the mouse hippocampus." in: **PLoS ONE**, Vol. 12, Issue 11, pp. e0188524, (2017) ([PubMed](#)).
- Fan, Chen, Ni, Wang, Sun, Chen, Zheng: "Expression of MMP-1/PAR-1 and patterns of invasion in oral squamous cell carcinoma as potential prognostic markers." in: **OncoTargets and therapy**, Vol. 8, pp. 1619-26, (2015) ([PubMed](#)).
- Acton, Miles: "Stimulation of Glia Reveals Modulation of Mammalian Spinal Motor Networks by Adenosine." in: **PLoS ONE**, Vol. 10, Issue 8, pp. e0134488, (2015) ([PubMed](#)).
- Liu, Xie, Luo, Chen, Zhou, Xia, Chen, Zhou, Cao, Cao, Zhou: "Identification of FLOT2 as a novel target for microRNA-34a in melanoma." in: **Journal of cancer research and clinical oncology**, (2014) ([PubMed](#)).

## Images



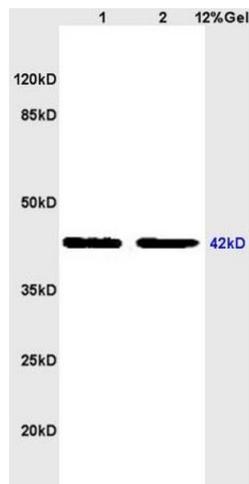
### Western Blotting

**Image 1.** At two weeks upon injury, brain thrombin activity and concentration are similar between mTBI exposed animals and controls.(a) Thrombin activity as well as its protein levels (b) assessed as described in the methods section were comparable between mTBI and control brain slices. (c) PAR1 and (d) factor X were slightly elevated in mTBI animals compared to control. Refer to text for statistics. - figure provided by CiteAb. Source: PMID29182653



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded human colon carcinoma labeled with Anti-PAR-1 Polyclonal Antibody (ABIN728743), Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining



### SDS-PAGE

**Image 3.** L1 rat heart, L2 rat brain lysates probed (ABIN728743) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted and observed band size: 42kDa.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN728743.