abcam

Product datasheet

Anti-PAR1/Thrombin Receptor antibody ab117749

2 Images

Overview

Product name	Anti-PAR1/Thrombin Receptor antibody
Description	Rabbit polyclonal to PAR1/Thrombin Receptor
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee, Macaque monkey, Gorilla, Orangutan
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive result in IHC in the following FFPE tissue: Human lung adenocarcinoma. This antibody gave a positive signal in WB within Human Platelet tissue lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab117749 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 47 kDa).
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function 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.

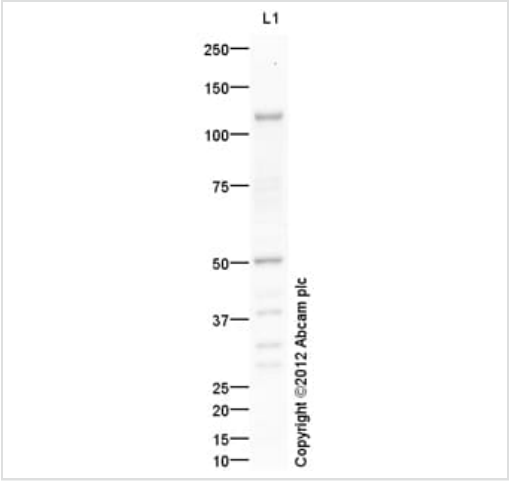
Tissue specificity Platelets and vascular endothelial cells.

Sequence similarities Belongs to the G-protein coupled receptor 1 family.

Post-translational modifications A proteolytic cleavage generates a new N-terminus that functions as a tethered ligand. Phosphorylated; probably mediating desensitization prior to the uncoupling and internalization of the receptor.

Cellular localization Cell membrane.

Images



Western blot - Anti-PAR1/Thrombin Receptor antibody (ab117749)

Anti-PAR1/Thrombin Receptor antibody (ab117749) at 1 µg/ml + Platelet (Human) Whole Cell Lysate at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

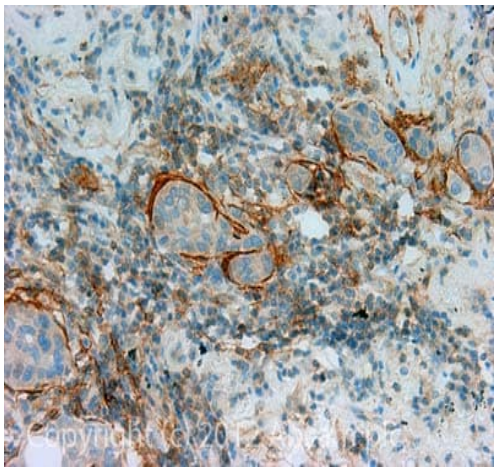
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 47 kDa
Observed band size: 50 kDa
Additional bands at: 116 kDa, 33 kDa, 38 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

PAR1/Thrombin Receptor contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAR1/Thrombin Receptor antibody (ab117749)

IHC image of PAR1/Thrombin Receptor staining in Human lung adenocarcinoma formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab117749, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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