



Anti-CD147 antibody ab232991

6 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-CD147 antibody |
| Description | Rabbit polyclonal to CD147 |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-P, WB |
| Species reactivity | Reacts with: Rat |
| Immunogen | Recombinant fragment (His-T7-tag) corresponding to Rat CD147 aa 50-350. (Expressed in E.coli). Database link: P26453 |
| |  Run BLAST with  Run BLAST with |
| Positive control | WB: Recombinant rat CD147 protein; Rat liver lysate. IHC-P: Rat liver, pancreas, stomach and heart tissues. |
| General notes | <p>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.</p> <p>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</p> |

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 long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS |
| Purity | Immunogen affinity purified |
| Purification notes | ab232991 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography. |
| Clonality | Polyclonal |

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab232991 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 |
|-------------|-----------|---|
| IHC-P | | Use a concentration of 5 - 20 µg/ml. |
| WB | | Use a concentration of 0.5 - 5 µg/ml. Predicted molecular weight: 42 kDa. |

Target

Function

Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPs). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes.

Tissue specificity

Present only in vascular endothelium in non-neoplastic regions of the brain, whereas it is present in tumor cells but not in proliferating blood vessels in malignant gliomas.

Sequence similarities

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

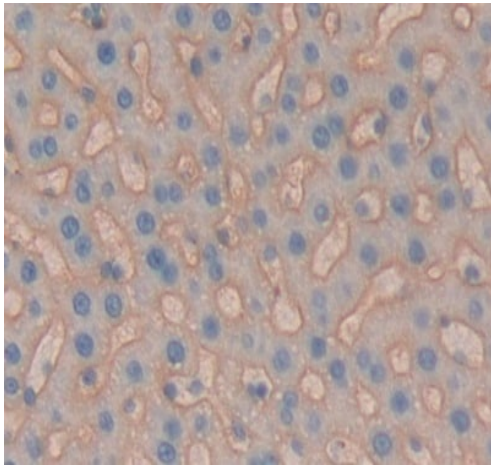
Post-translational modifications

N-glycosylated.

Cellular localization

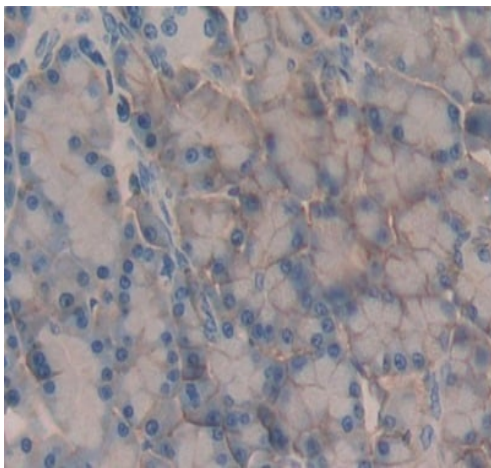
Cell membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



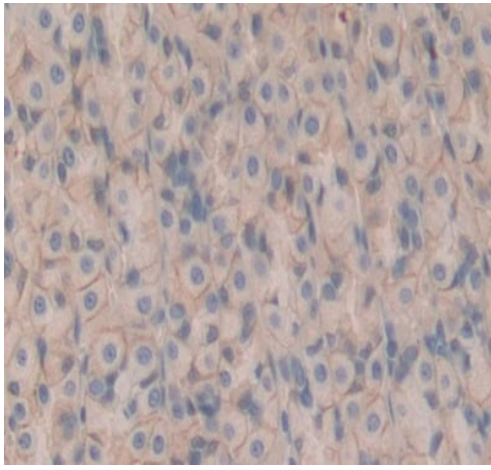
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD147 antibody (ab232991)

Paraffin-embedded rat liver tissue stained for CD147 at 20 µg/ml in immunohistochemical analysis. DAB staining.



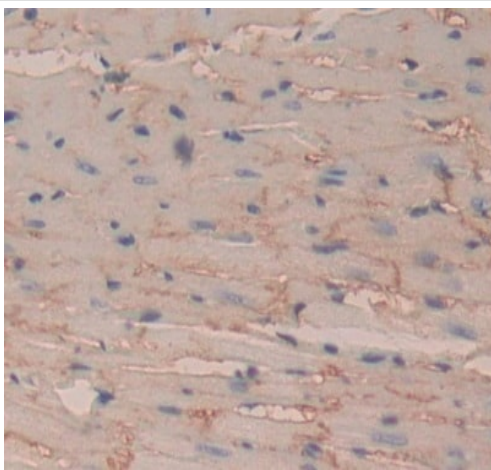
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD147 antibody (ab232991)

Paraffin-embedded rat pancreas tissue stained for CD147 at 20µg/ml in immunohistochemical analysis. DAB staining.



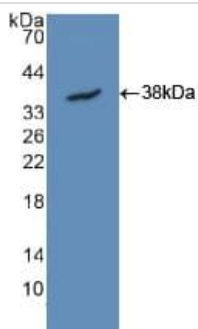
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD147 antibody (ab232991)

Paraffin-embedded rat stomach tissue stained for CD147 at 20 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD147 antibody (ab232991)

Paraffin-embedded rat heart tissue stained for CD147 at 20 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.



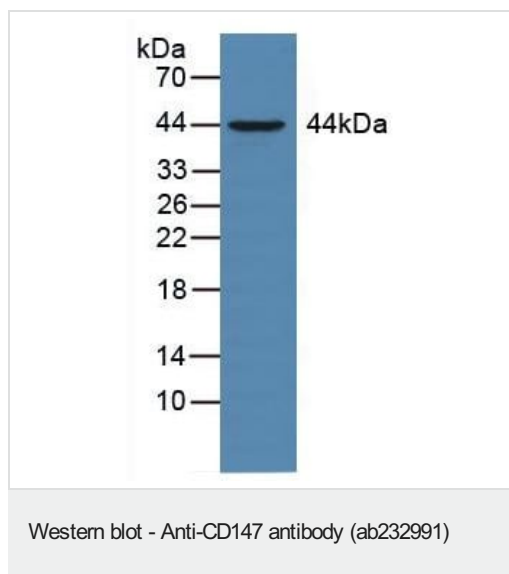
Western blot - Anti-CD147 antibody (ab232991)

Anti-CD147 antibody (ab232991) at 3 $\mu\text{g/ml}$ + Recombinant rat CD147 protein

Secondary

HRP-Linked Guinea pig Anti-Rabbit at 1/2000 dilution

Predicted band size: 42 kDa



Anti-CD147 antibody (ab232991) at 3 µg/ml + Rat liver lysate

Secondary

HRP-Linked Guinea pig Anti-Rabbit at 1/2000 dilution

Predicted band size: 42 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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