



Product datasheet

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	<p>Recombinant fragment (His-T7-tag) corresponding to Rat CD147 aa 59-321. (Expressed in E.coli).</p> <p>Sequence:</p> <pre> EGNEPNDSCSQLWDGARLDRVHIHATYRQHAASTLSVDG LAAEDTGTYEC RASSDPDRNHLTRPPRVKWWRAQASVVVLEPGTIVTSVQ EVDSKTQLTCF LNSSGIDIVGHRWMRGGKVLQEDTLPDLQMKYTVDADDR SGEYSCIFLPE PVGRGNINVEGPPRIKVGKKSEHASEGEFVKLICKSEASH PPVDEWVWFK TSDTGDQTISNGTEANSKYVIISTPELSELIISDLDNMNVDPGT YVCNATN SQGSARETISLRV </pre> <p>Database link: P26453</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	WB: Recombinant rat CD147 protein; Rat liver lysate. IHC-P: Rat liver, pancreas, stomach and heart tissues.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p>

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
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

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.

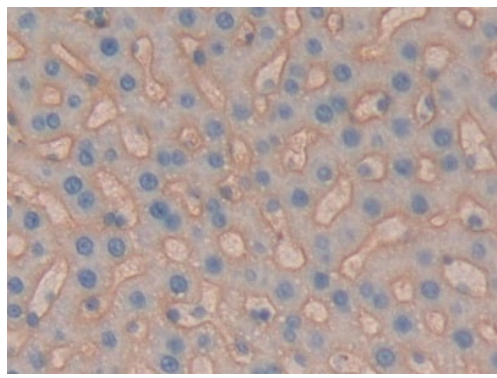
Post-translational modifications

N-glycosylated.

Cellular localization

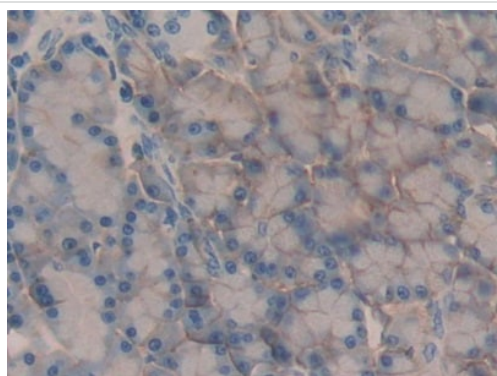
Cell membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



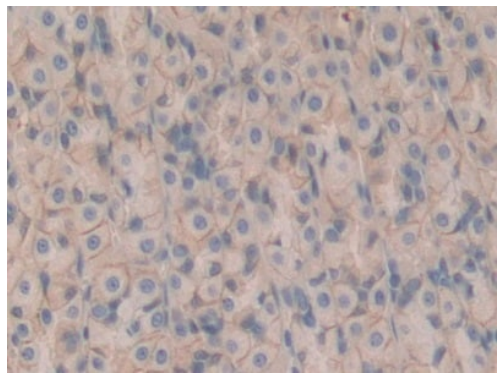
Paraffin-embedded rat liver tissue stained for CD147 at 20 µg/ml in immunohistochemical analysis. DAB staining.

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



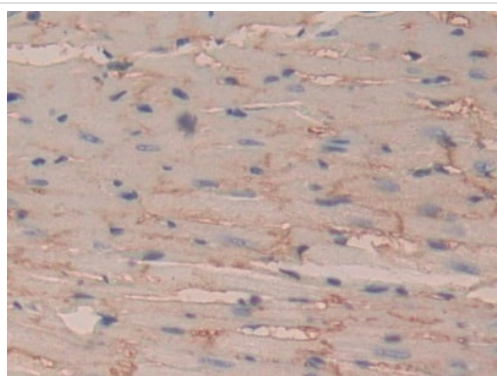
Paraffin-embedded rat pancreas tissue stained for CD147 at 20µg/ml in immunohistochemical analysis. DAB staining.

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



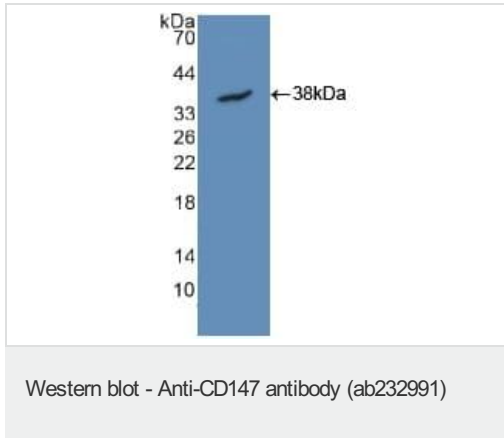
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD147 antibody (ab232991)

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.

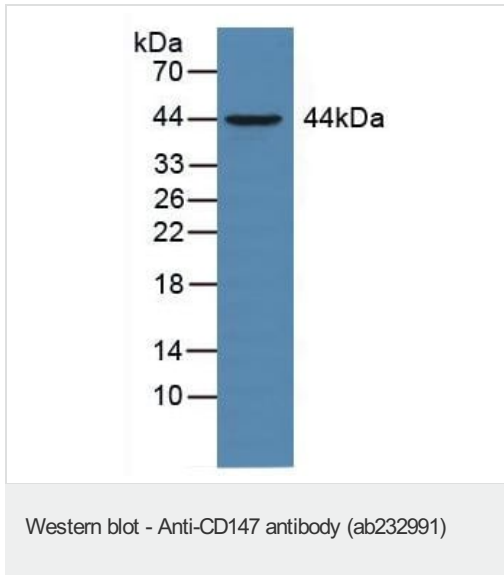


Anti-CD147 antibody (ab232991) at 3 µg/ml + Recombinant rat CD147 protein

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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