abcam

Product datasheet

Anti-CD147 antibody [8D6] ab194401

KO VALIDATED

2 Images

Overview

Product name Anti-CD147 antibody [8D6]

Description Mouse monoclonal [8D6] to CD147

Host species Mouse

Specificity ab194401 recognizes extracellular epitope 2 within the N-terminal lg domain of human CD147.

Tested applications Suitable for: IP, ICC/IF, IHC-Fr, IHC-P, Flow Cyt, WB

Species reactivity Reacts with: Human

Immunogen Tissue, cells or virus corresponding to Human CD147. Human T cell line Molt 13

Database link: P35613

Positive control IHC-P: Human renal cell carcinoma tissue. Flow Cyt: A549 cells.

General notesThe 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 long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.2

Preservative: 0.05% Sodium azide Constituents: 0.05% BSA, 99% PBS

Purity Protein G purified

Purification notesPurified from bioreactor concentrate.

Clonality Monoclonal

Clone number 8D6

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Isotype IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab194401 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
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
IHC-P		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		Use 0.5-1µl for 10 ⁶ cells. ab170190 - Mouse monoclonal lgG1, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Predicted molecular weight: 42 kDa. Actual Band: 35kDa (non-reduced); 40kDa (reduced).

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Function Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tu
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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 lg-like C2-type (immunoglobulin-like) domain.

Contains 1 lg-like V-type (immunoglobulin-like) domain.

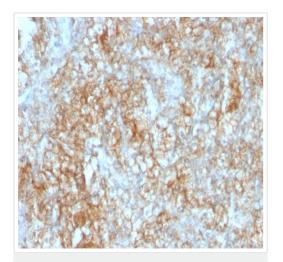
Post-translational modifications

N-glycosylated.

Cell membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified

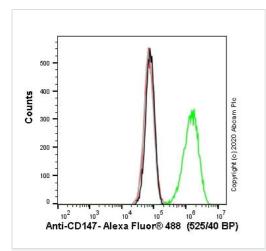
by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD147 antibody [8D6] (ab194401)

Formalin-fixed, paraffin-embedded human renal cell carcinoma tissue stained for CD147 using ab194401 at 2 μ g/ml in immunohistochemical analysis.



Flow Cytometry - Anti-CD147 antibody [8D6] (ab194401)

Flow cytometry overlay histogram showing wild-type A549 (green line) and BSG knockout A549 cells (ab273748) stained with ab194401 (red line). The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab194401) (1x10 6 in 100 μ l at 10 μ g/ml) for 30 min at 4°C.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor® 488, pre-adsorbed) (ab150117) was used at 1/2000 for 30 min at 4°C.

Isotype control antibody was mouse IgG1κ (ab170190) used at the same concentration and conditions as the primary antibody (wild-type A549 - black line; BSG knockout A549 - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

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

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