

Product datasheet

Anti-CD147 antibody [OX114] ab34016

[10 References](#) [2 Images](#)

Overview

Product name	Anti-CD147 antibody [OX114]
Description	Rat monoclonal [OX114] to CD147
Host species	Rat
Tested applications	Suitable for: Flow Cyt, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Fusion protein corresponding to Mouse CD147. Fusion protein mCD147dO-2rCD4d3 +4. Database link: P18572
Epitope	The antibody binds to a region between domains 1 and 2 (aa 37-219) of mouse CD147.
Positive control	mouse splenocytes
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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	ab34016 was purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	OX114
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab34016 in the following tested applications.

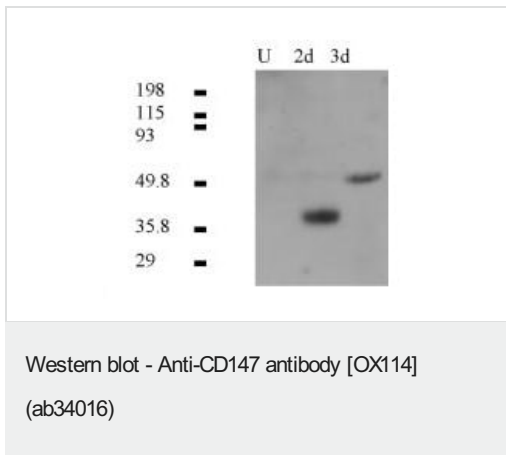
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/25 - 1/50. Use 10µl of the suggested working dilution to label 1 x 10 ⁶ cells. Note that for staining of whole blood samples increased amounts of antibody may be required due to the presence of CD147 on erythrocytes.
WB		Use at an assay dependent concentration. 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



WB using ab34016.

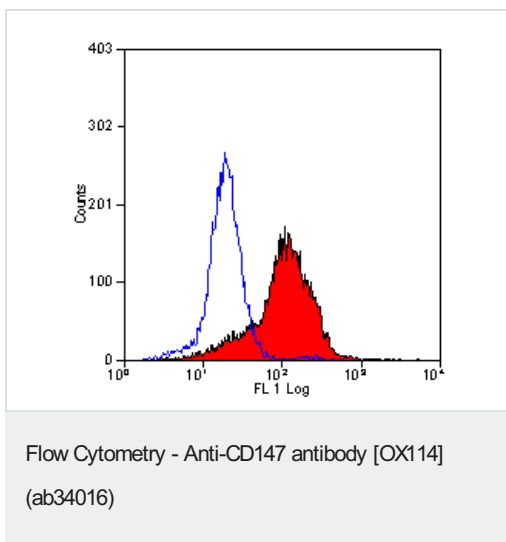
U: Untransfected HEK-293T cell lysate.

2d: HEK-293T cells transfected with mouse CD147 d1+2 construct.

3d: HEK-293T cells transfected with mouse CD147d0-2 construct.

Data from PMID : 14606962.

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ab34016 staining CD147 in mouse peripheral blood lymphocytes by Flow Cytometric analysis.

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