

Biotin Anti-SIRP alpha antibody [OX-41] ab33987

2 References

Overview

Product name	Biotin Anti-SIRP alpha antibody [OX-41]
Description	Biotin Mouse monoclonal [OX-41] to SIRP alpha
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: IHC-Fr
Species reactivity	Reacts with: Rat
Immunogen	Tissue, cells or virus corresponding to Rat SIRP alpha. Peritoneal macrophages (Rat) Database link: P97710
Epitope	This clone binds to a different epitope on CD172a than ED 9.
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). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: 1% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	OX-41
Isotype	IgG2a

Applications

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab33987 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-Fr		

Application notes

Flow Cyt: Use neat. Use 10ul to label 10^6 cells in 100ul.

IHC-Fr: Use at an assay dependent dilution.

IHC-P: Use at an assay dependent dilution. This product requires protein digestion pre-treatment of paraffin sections, eg. trypsin or pronase.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Immunoglobulin-like cell surface receptor for CD47. Acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. Supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. May play a key role in intracellular signaling during synaptogenesis and in synaptic function (By similarity). Involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin. Mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells.

Tissue specificity

Ubiquitous. Highly expressed in brain. Detected on myeloid cells, but not T-cells. Detected at lower levels in heart, placenta, lung, testis, ovary, colon, liver, small intestine, prostate, spleen, kidney, skeletal muscle and pancreas.

Sequence similarities

Contains 2 Ig-like C1-type (immunoglobulin-like) domains.

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

Post-translational modifications

N-glycosylated.

Phosphorylated on tyrosine residues in response to stimulation with EGF, growth hormone, insulin and PDGF. Dephosphorylated by PTPN11.

Cellular localization

Membrane.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors