

Product datasheet

Anti-CD47 antibody [OX-101] ab33852

1 References

Overview

Product name	Anti-CD47 antibody [OX-101]
Description	Mouse monoclonal [OX-101] to CD47
Host species	Mouse
Specificity	Ab33852 recognises CD47 expressed primarily by lymphocytes and macrophages but also detected at high levels on brain endothelial cells.
Tested applications	Suitable for: Flow Cyt, IP, WB
Species reactivity	Reacts with: Rat
Immunogen	Tissue/ cell preparation: Rat thymocytes
General notes	OX-101 (this clone) recognises the rat homologue of human CD47, which has been identified as the ligand for the rat signal regulatory protein (SIRP).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: PBS
Purity	Protein G purified
Purification notes	Ab33852 was purified from tissue culture supernatant.
Primary antibody notes	OX-101 (this clone) recognises the rat homologue of human CD47, which has been identified as the ligand for the rat signal regulatory protein (SIRP).
Clonality	Monoclonal
Clone number	OX-101
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab33852** 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		Use 10µl for 10 ⁶ cells. Use 10µl for 10 ⁶ cells in 100µl. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 33 kDa.

Target

Function	Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus (By similarity). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection.
Tissue specificity	Very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain.
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Cellular localization	Cell membrane.

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