

Product datasheet

Anti-CD47 antibody [OX-101] ab33852

1 References

Overview

<b>Product name</b>	Anti-CD47 antibody [OX-101]
<b>Description</b>	Mouse monoclonal [OX-101] to CD47
<b>Specificity</b>	Ab33852 recognises CD47 expressed primarily by lymphocytes and macrophages but also detected at high levels on brain endothelial cells.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat
<b>Immunogen</b>	Tissue/ cell preparation: Rat thymocytes
<b>General notes</b>	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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Ab33852 was purified from tissue culture supernatant.
<b>Primary antibody notes</b>	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).
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	OX-101
<b>Isotype</b>	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 <sup>6</sup> cells. Use 10µl for 10 <sup>6</sup> cells in 100µl. <a href="#">ab170190</a> - 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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