

Product datasheet for **TA363856**

CD11b/c Mouse Monoclonal Antibody [Clone ID: OX-42]

Product data:

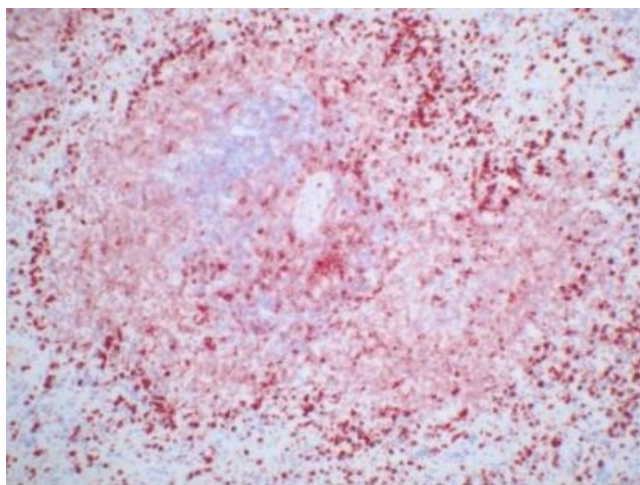
Product Type:	Primary Antibodies
Clone Name:	OX-42
Applications:	IHC
Recommended Dilution:	Tested for immunohistochemistry (IHC); has been described to work in FACS. Approximate working dilution for IHC: Frozen sections: 5 -10µg/ml (1:100 - 1:200) Paraffin sections: does not react on routinely processed paraffin sections. Optimal dilutions should be determined by the end user. Suggested positive control: Rat spleen.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Peritoneal macrophages.
Specificity:	Rat: granulocytes, macrophages, microglial cells. Other species: not tested
Epitope:	CD11b/c. OX-42 recognises three major polypeptides of 160kDa, 103kDa and 95kDa and a minor 133kDa protein under non-reducing conditions. Under reducing conditions two major peptides of 163kDa and 100kDa and a minor 135kDa peptide are detected.
Distribution:	Isolated cells: OX-42 shows a similar reaction pattern to OX- 41 on various isolated cells but stains bronchial lavage cells to a lesser degree. OX-42 inhibits complement mediated rosettes. Tissue sections: OX-42 is a most suitable marker for the identification of microglial cells and Kupffer cells. It also stains dendritic cells strongly. Only a subpopulation of alveolar macrophages is recognised.
Formulation:	Purified, liquid Supplied as 1ml solution. This stock solution contains 1mg/ml IgG, phosphate buffered saline pH 7.2 (PBS) and 0.09% sodium azide as a preservative.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.



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Background:

Monoclonal antibody OX-42 recognises most macrophages (including resident peritoneal and activated macrophages), Kupffer cells, but only about 35% of alveolar macrophages. It also labels dendritic cells extensively, and granulocytes and cells with the morphology of microglia in the brain. OX-42 is probably the rat equivalent of the human CR3 complement receptor for iC3b. In combination with OX-41 it facilitates a more distinct phenotyping of resident macrophages.

Product images:

TA363856, Clone OX-42, rat spleen, frozen section