abcam

Product datasheet

Anti-CD68 antibody [514H12] ab49777

21 References 1 Image

Overview

Product name Anti-CD68 antibody [514H12]

Description Mouse monoclonal [514H12] to CD68

Host species Mouse

Tested applications Suitable for: IHC-Fr, IHC-P

Unsuitable for: WB

Species reactivity Reacts with: Human

Immunogen fusion protein corresponding to the carboxy terminal half of the external domain of the human

CD68 molecule.

Positive control Tonsil

General notes

This antibody stains macrophages in various tissues including Kupffer's cells and in the red pulp of the spleen, lamina propria of the gut, lung alveoli and bone marrow. It reacts with myeloid

precursors and peripheral blood granulocytes and monocytes.

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: 0.097% Sodium azide

Constituent: Tissue culture supernatant

Purity Tissue culture supernatant

Primary antibody notes This antibody stains macrophages in various tissues including Kupffer's cells and in the red pulp

of the spleen, lamina propria of the gut, lung alveoli and bone marrow. It reacts with myeloid

precursors and peripheral blood granulocytes and monocytes.

Clonality Monoclonal

Clone number 514H12

Myeloma P3-NS1/1-Ag4-1

lsotype lgG2a **Light chain type** kappa

Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab49777 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		1/40 - 1/80. Fix with acetone.
IHC-P		1/40 - 1/80. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The use of EDTA buffer is recommended.

Application notes

Is unsuitable for WB.

Target

Function

Could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells.

Tissue specificity

Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.

Sequence similarities

Belongs to the LAMP family.

Post-translational

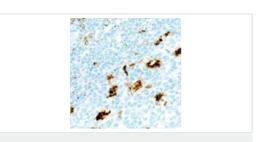
modifications

N- and O-glycosylated.

Cellular localization

Cell membrane and Endosome membrane. Lysosome membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD68 antibody [514H12] (ab49777)

This image shows human tonsil tissue stained with Ab 49777 at 1/40 dilution. Note intense cytoplasmic staining of macrophages.

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