

CD68 antibody

Cat # HCD6811-A

Rabbit Anti-Human CD68 antibody

SIZE: 100 µg

Macrosialin, also known as CD68 and Gp11, is a single-pass type I membrane protein which belongs to the LAMP family. CD68 is highly expressed by blood monocytes and tissue macrophages. It is also expressed in lymphocytes, fibroblasts and endothelial cells. CD68 is expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites. CD68 plays a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. It is a commonly used marker for macrophages. CD68 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.

Source of Antigen or Antibodies

Uniprot: P34810

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity chromatography

Immunogen: Synthetic peptide derived from the extracellular N-terminal region of Human CD68

Species reactivity: Human

Cross reactivity: The peptide used as an immunogen exhibits 100% homology with Non-human primates. Due to low homology, it is not recommended for use in other species.

Subcellular Location: Plasma membrane, Lysosome, Endosome

Alternative names: Macrosialin, CD68, Gp110

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (ADI cat#20320)

Form & Storage of Antibodies

Affinity pure IgG Solution

Concentration: 0.5 mg/ml Volume: 200 µl

Supplied in PBS, pH 7.4 + 0.1% BSA

The antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

Lyophilized powder

Lyophilized from a formulation containing PBS, pH 7.4+3% Trehalose. Reconstitute powder in 200 µl PBS, 0.05% tween-20, and 0.1% BSA.

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions. Glycerol may be added to a final concentration of 50% and antibodies can be stored un-aliquoted at -20°C.

Recommended Usage

Immunohistochemistry: 1-10 µg/ml. QC tested using 10 mM sodium citrate pH 6, antigen retrieval buffer. The antibody may work better with no retrieval or different retrieval solutions.

The above concentrations are a *suggestion*, user's must optimize their assay based on their own conditions. The antibody may work in other applications such as Flow Cytometry. These methods have not been tested by ADI.

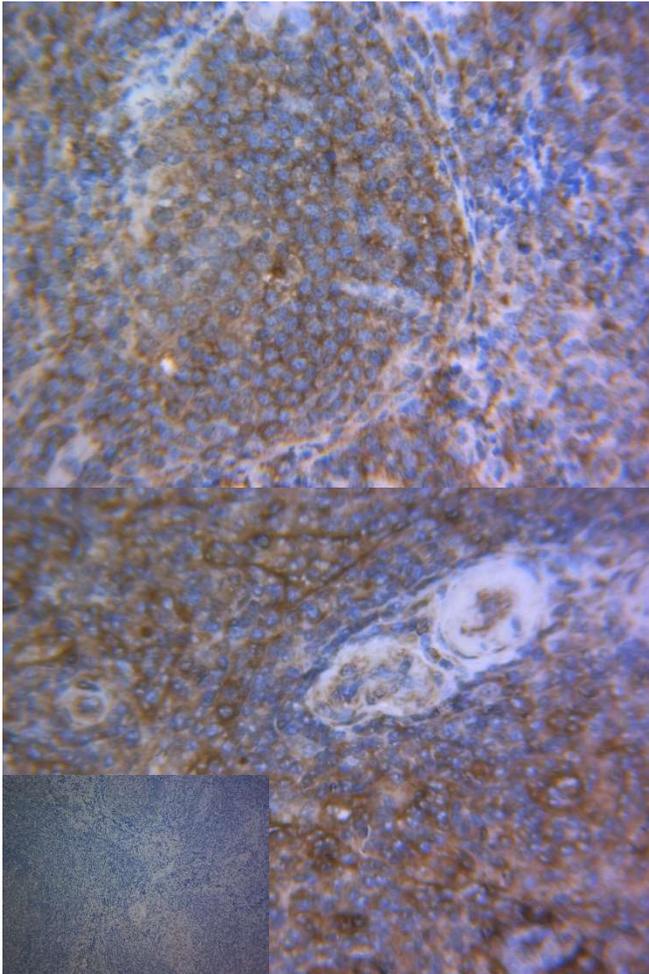
**This product is for In vitro research use only.*

Related materials available from ADI

Catalog#	Description
GFAP11-A	Rabbit Anti-Mouse phospho Glial fibrillary acidic protein (Ser266) antibody
GFAP21-A	Rabbit Anti-Mouse Glial fibrillary acidic protein (GFAP) antibody
HCD34-A	Rabbit anti-Human CD34 antibody
CD14F-100	Mouse Monoclonal Anti-Human CD14-FITC conjugate
CD14P-100	Mouse Monoclonal Anti-Human CD14-PE conjugate
CD14PC-100	Mouse Monoclonal Anti-Human CD14-PE-Cy5-conjugate
CD14UL-100	Mouse Monoclonal Anti-Human CD14, Unlabeled
VWF11-A	Rabbit Anti-Rat von Willebrand factor antibody
VWFH11-A	Rabbit anti-Human von Willebrand factor antibody

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Immunohistochemistry: FFPE Human Spleen and Lymph node slides were heated for 20 minutes at 60°C then deparaffinized. Antigen retrieval was performed for 10 minutes at 95°C in a microwave using 10 mM pH 6, sodium citrate buffer. The slide was then cooled for 20 minutes at room temperature before being blocked for 30 minutes with 2.5% normal goat serum. **HCD6811-A** was diluted to 5 µg/ml in TBST+0.1% BSA and incubated overnight at 4°C (Inset represents Immunogen peptide absorbed antibody incubation). The slides were then washed twice and incubated with 3% hydrogen peroxide for 10 minutes to quench endogenous peroxidase. The slide was washed then incubated with Goat anti-Rabbit IgG HRP polymer detection reagent for 30 minutes at room temperature. The slide was washed twice, incubated with DAB for 3 minutes, washed with distilled water, then counterstained for 1 minute with Gil's II Hematoxylin before being cover-slipped.