

Bulk Anti-Human CD68 (KP1) Antibody

Product Code: ICH1190

Bulk anti-Human CD68 Antibody (KP1)

Product Benefits:

ichorbio's bulk anti-Human CD68 Antibody (KP1) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility.

Target:

CD68

Other Names:

GP110, LAMP4, SCARD1, CD68 molecule

Clone:

KP1

Size:

ichorbio's anti-Human CD68 antibody is available in the following bulk sizes: 5mg, 25mg, 50mg and 100mg. ichorbio regularly manufactures multi-gram amounts of our anti-CD68 clone KP1 - please contact us for pricing.

Isotype:

Mouse IgG1 kappa

Host:

Mouse

Species Reactivity:

Human

Specificity:

Anti-CD68 antibody (clone KP1) activity is directed against human CD68.

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

CD68 is found in the cytoplasm of monocytes/macrophages, fibroblasts, human peripheral blood lymphocytes, neutrophil primary and mast cell granules, large granular lymphocytes, basophils, basal epithelial cell layers, renal glomeruli, myeloid cells, endothelial cells, retinal epithelial cells, osteoblasts, fibroblast-like cells from bone marrow, and a wide-range of lymphoid neoplasms. CD68 is predominantly located in lysosomal membranes, with a small amount on the cell surface. Additionally, CD68 can be expressed in most hematopoietic cell lines by phorbol-induced differentiation; soluble CD68 can also be found in serum and urine.

Background:

KP1 was originally used as a pan-monocytic/macrophage marker against CD68; however, CD68 is not a macrophage specific antigen and KP1 is known to stain neutrophils and other non-macrophage-like cells. KP1 reacts against CD68 in a wide range of healthy and disease-associated (rheumatoid arthritis and osteoarthritis) tissues as well as a variety of neoplasms, tumor cell lines, and tumor-associated macrophages. KP1 detects a fixation-resistant epitope that is likely glycan-based which is shared by many cell types. KP1 was developed by immunizing Balb/c mice against a lysosomal fraction of human lung. Hybridoma supernatants derived from spleen cells were screened on cryostat human lung and tonsil sections as well as paraffin wax sections of lung tissue fixed in formol saline.

Immunogen:

Lysosomal fraction of human lung.

Concentration:

>2.0 mg/ml

Formulation:

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

≤ 1.0 EU/mg as determined by the LAL method

≤ 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ≤ 5%

Aggregation level ≤ 1%

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at - 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Functional Assays, Flow Cytometry, Immunofluorescence Microscopy, IHC-Frozen, IHC-Paraffin, Western Blot

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.

Alternative Names:

ichor.bio // hello@ichor.bio

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

ichorbio, ichorbio logo and all other trademarks are the property of ichorbio LTD © ichorbio

2026

- CD 68 antibody
- CD68 antibody
- CD68 antigen antibody
- CD68 molecule antibody
- CD68_HUMAN antibody
- DKFZp686M18236 antibody
- gp11 antibody
- Gp110 antibody
- LAMP4 antibody
- Macrophage antigen CD68 (microsialin) antibody
- MACROPHAGE ANTIGEN CD68 antibody
- Macrosialin antibody
- SCARD1 antibody
- Scavenger receptor class D member 1 antibody