Bulk Anti-Human CD68 (KP1) Antibody

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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)5 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:

- 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