

## CD68 (KP1)

Format	Catalog No.	Pack size	Dilution
Concentrated	G0060 A, B, C	0.1, 0.5, 1.0 ml	1:100
Prediluted	G0060 AA, BB	6.0, 3.0 ml	Ready to use

**SPECIES:** Mouse

**IMMUNOGEN:** Subcellular fraction of human alveolar macrophages

**CLONE:** KP-1

**ISOTYPE:** IgG1, kappa

**FORMAT:** 200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM EDTA with 0.05% BSA & 0.05% azide.

**SPECIFICITY:** This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.

### BACKGROUND –

When detecting macrophages in tissue slices, this MAb is crucial. It stains macrophages in a broad range of human tissues, including as bone marrow, lung alveoli, the lamina propria of the gut, Kupffer cells, and the red pulp of the spleen. It interacts with peripheral blood granulocytes and myeloid precursors. Additionally, it interacts with plasmacytoid T-cells, which are thought to originate from monocytes or macrophages. It responds with rare instances of genuine histocytic neoplasia and exhibits high granular cytoplasmic staining of both acute and chronic myeloid leukaemia. Negative lymphomas or those with little granules are seen.

**SPECIES REACTIVITY :** Human, Monkey, Mouse, Rat and Cat. Does not react with Pig, Dog, and Chicken. Others not known.

**POSITIVE CONTROL :** Tonsil, Lymph Node or Spleen

**CELLULAR LOCALIZATION :** Cytoplasmic

**TITER/WORKING DILUTION :** Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml

Flow Cytometry: 0.5-1 µg/million cells

Immunofluorescence: 0.5-1 µg/ml

Western Blotting: 0.5-1 µg/ml

Immunoprecipitation: 0.5-1 µg/500µg protein lysate

**MICROBIOLOGICAL STATE :** This product is not sterile.

### LIMITATIONS AND USES:

1. For Research Use Only (RUO).
2. Not to be consumed internally.
3. This product is designed for qualitative immunohistochemistry using formalin-fixed, paraffin-embedded
4. tissue sections from both normal and malignant tissues, which will be examined under a light microscope.



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5. If the reagent gets hazy, don't use it.
6. Never use after the expiration date.
7. When working with reagents, exercise caution.
8. Not sterile.

#### PROCEDURE –

1. **Tissue Section Pretreatment (Necessary):** Citrate Plus pretreatment greatly improves the staining of tissue slices that have been paraffin embedded and fixed with formalin.
2. **Incubation Time for Primary Antibody:** We recommend 30 minutes at room temperature for incubation.  
However, the user should choose the best incubation time based on the staining system used and the fixing circumstances.
3. **Visualisation:** To get the highest staining intensity, we advise combining the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" with the "UltraTek HRP Anti-Polyvalent Lab Pack".

#### PRECAUTIONS –

1. Contains 0.09% w/v sodium azide as a preservative.
2. Avoid pipetting by mouth.
3. Reagents and specimens should not come into touch with skin or mucous membranes.
4. Prevent reagent contamination by microorganisms, as this could lead to an increase in nonspecific staining.
5. There are no dangerous materials in this product.

#### TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at [www.genebiosolution.com](http://www.genebiosolution.com)



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