

## CD68 (KP1)

| Type         | Size      | Catalog number |
|--------------|-----------|----------------|
| Unconjugated | 100µg     | 106401         |
|              | 500µg     | 106403         |
| FITC         | 25 tests  | 106414         |
|              | 100 tests | 106415         |
|              | 200 tests | 106416         |

|                      |                                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| <b>Antigen:</b>      | CD68                                                                                 |
| <b>Immunogen:</b>    | Lysosomal fraction of human alveolar macrophages                                     |
| <b>Host/Isotype:</b> | Mouse, IgG1, κ                                                                       |
| <b>Reactivity:</b>   | Human                                                                                |
| <b>Purity:</b>       | >90% pure tested via polyacrylamide gel electrophoresis (PAGE)                       |
| <b>Formulation:</b>  | PBS, pH7.2, 0.09% NaN <sub>3</sub> (unconjugated)                                    |
| <b>Storage:</b>      | Store at 2-8°C and protected from prolonged exposure to light. <b>Do not freeze.</b> |
| <b>Applications:</b> | Flow Cytometry                                                                       |

### Application Information

Each lot of this antibody has been quality control tested by intracellular flow cytometric analysis using human PBMCs. For intracellular flow cytometric staining, the recommended use of this antibody is ≤ 0.5µg per 1x10<sup>6</sup> cells in 100µl of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

### Antigen Information

The clone KP1 recognizes 110 kDa highly glycosylated lysosomal-associated membrane protein (LAMP) known as CD68. It plays important role in the immune process of endocytosis and/or lysosomal trafficking mostly carried out by cellular components of innate immunity. The CD68 is abundantly expressed in the cytoplasmic granules of macrophages, monocytes, neutrophils, basophils, subset of hematopoietic progenitors, γ/δ T cells, NK cells, LAK cells, subset of B cells, fibroblasts, and endothelial cells. Studies suggest that KP1 is a very useful tool for studying disorders of the monocyte/macrophage system, including both reactive and neoplastic states.

### References

1. Holness CL et al., Blood. 81:1607-1613 (1993).
2. Gottfried E et al., Scand. J. Immunol. 67(5):453-63 (2008).
3. Doussis IA et al., J. Clin. Pathol. 46:334-336 (1993).

### Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.