Anti-Human CD68
Clone 514H12
Cat. no. MONX10417

Specificity
CD68 antigen is a 110kD intracellular glycoprotein primarily associated with cytoplasmic granules and to a lesser extent the membranes of macrophages, monocytes, neutrophils, basophils and large lymphocytes. The function of CD68 antigen is unknown but these lysosomal glycoproteins are the major components and may protect the membranes from attack by acid hydrolases. It is unclear if the surface associated CD68 antigen is functionally significant or due to leakage from the lysosomes. CD68 expression has been demonstrated in stimulated T cells and NK cells, non-haematopoietic tissues such as the liver and renal tubules. Clone 514H12 immunohistochemically stains macrophages in various tissues including Kupffer’s cells and in the red pulp of the spleen, lamina propria of the gut, lung alveoli and bone marrow. This clone reacts with myeloid precursors and peripheral blood granulocytes and monocytes.

Immunoglobulin type
Murine IgG2a, kappa

Use
The antibody can be used for immunohistochemistry on frozen (acetone fixation recommended) and paraffin sections (using 1 mM EDTA pH8.0 unmasking solution combined with the high temperature antigen unmasking technique).

Instructions for use
Immunohistochemistry:
Typical working dilution 1:40-1:80.
High temperature antigen unmasking technique using 1mM EDTA (pH8.0).
60 minutes primary antibody incubation at 25°C.
Standard ABC technique.

Staining pattern: Cytoplasmic
Antigen used for immunizations: Prokaryotic fusion protein corresponding to the carboxy-terminal half of the external domain of the CD68 molecule.

Positive control
Tonsil

Presentation
Liquid tissue culture supernatant containing 15mM sodium azide. Volume as indicated on vial label.
**Literature**

**Storage and Handling**
Store liquid antibody at 4ºC. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. Prepare working dilutions on the day of use.

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