**Product datasheet**

**Anti-CD68 antibody ab125212**

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**Overview**

**Product name**  Anti-CD68 antibody  
**Description**  Rabbit polyclonal to CD68  
**Host species**  Rabbit  
**Tested applications**  Suitable for: WB, IHC-P, IHC-Fr, IHC-FoFr  
**Species reactivity**  Reacts with: Mouse, Rat, Human  
**Immunogen**  Synthetic peptide corresponding to Mouse CD68 (internal sequence).  
**Positive control**  WB: Rat and mouse spleen tissue lysate. RAW 264.7 cell lysate. IHC-P: Mouse spleen and skin tissue. IHC-Fr: Rat liver tissue.

**Properties**

**Form**  Liquid  
**Storage instructions**  Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.  
**Storage buffer**  Preservative: 0.025% Sodium azide  
Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate, 5.61% Trehalose  
**Purity**  Immunogen affinity purified  
**Clonality**  Polyclonal  
**Isotype**  IgG

**Applications**

Our Abpromise guarantee covers the use of ab125212 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<tr>
<th>Application</th>
<th>Abreviews</th>
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<tr>
<td>WB</td>
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<td>Use a concentration of 0.1 - 0.5 µg/ml. Predicted molecular weight: 35 kDa. The detection limit for ab125212 is approximately 0.1ng/lane under non-reducing and reducing conditions.</td>
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Function
Could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells.

Tissue specificity
Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.

Sequence similarities
Belongs to the LAMP family.

Post-translational modifications
N- and O-glycosylated.

Cellular localization

### Images

Anti-CD68 antibody (ab125212)

Paraffin-embedded rat liver tissue stained for CD68 using ab125212 at 1 μg/ml in immunohistochemical analysis.

Frozen sectioned rat liver tissue stained for CD68 using ab125212 at 1 μg/ml in immunohistochemical analysis.
Western blot analysis of rat and mouse tissue lysates, labelling CD68 with ab125212

Additional bands at: 90-100 kDa (possible glycosylated form)

Immunohistochemical analysis of murine spleen tissue, staining CD68 with ab125212.

Tissue was fixed with paraformaldehyde and blocked with 5% serum for 1 hour at room temperature; antigen retrieval was by heat mediation in citrate buffer (pH 6). Samples were incubated with primary antibody (undiluted) for 16 hours at 4°C. An undiluted HRP-conjugated horse anti-rat polyclonal IgG was used as the secondary antibody.
ab125212 staining CD68 in Mouse spleen tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 5% serum for 30 minutes at 20°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/100 in PBS + 2% BSA + 10% FCS) for 45 minutes at 20°C. A HRP-conjugated goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody.

Immunohistochemical analysis of murine spleen tissue, staining CD68 with ab125212.

Tissue was fixed with paraformaldehyde, permeabilized with 0.25% Triton X-100 and blocked with 5% serum for 30 minutes at 25°C. Samples were incubated with primary antibody (1/400 in 5% goat serum) for 18 hours at 4°C. An AlexaFluor®488-conjugated goat anti-rabbit polyclonal IgG (1/400) was used as the secondary antibody.
ab125212 staining CD68 in Mouse skin tissue sections by Immunohistochemistry (Formalin/PFA-fixed, paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 10% serum for 30 minutes at 24°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/2000 in 10% goat serum) for 16 hours at 4°C. A Biotin-conjugated goat anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody.

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