

# Anti-CD68 Antibody [F3-D7]

## EM1706-11



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P, ICC, FC
<b>Molecular Wt:</b>	37 kDa
<b>Clone number:</b>	F3-D7

**Description:** CD68, which is homologous to the mouse antigen macrosialin, belongs to a family of acidic, highly glycosylated lysosomal glycoproteins (LGPs) that includes lamp-1 and lamp-2. CD68 is found in cytoplasmic granules and in the cytoplasm of various non-hematopoietic tissues including liver and kidney tubules and glomeruli. CD68 is also found, to a lesser extent, on the surface of macrophages, monocytes, neutrophils, basophils and large lymphocytes. LGPs are major components of lysosomal membranes and may act to protect the membranes from attack by hydrolases.

**Immunogen:** Recombinant protein

**Positive control:** Human CD68 recombinant protein, CD68-hlgGfc transfected HEK293 cell lysate, U937, Hela, HepG2, human endometrial cancer tissue, human bladder cancer tissue, Jurkat.

**Subcellular location:** Cell membrane and Endosome membrane. Lysosome membrane.

**Database links:** SwissProt: P34810 Human

### Recommended Dilutions:

<b>WB</b>	1:500-1:2,000
<b>ICC</b>	1:200-1:1,000
<b>IHC-P</b>	1:200-1:1,000
<b>FC</b>	1:50-1:100

**Storage Buffer:** Purified antibody in PBS with 0.05% sodium azide.

**Storage Instruction:** 4°C; -20°C for long term storage.

**Purity:** Protein A affinity purified.

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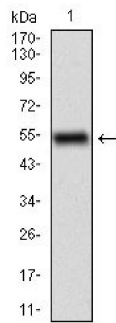
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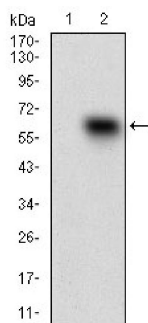
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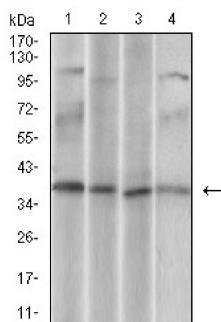
## Images



**Fig1:** Western blot analysis of CD68 on human CD68 recombinant protein using anti-CD68 antibody at 1/1,000 dilution.

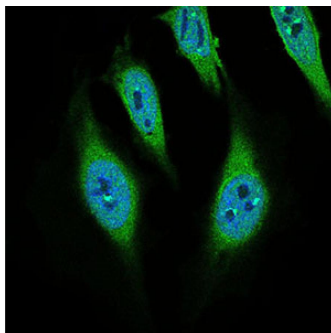


**Fig2:** Western blot analysis of CD68 on HEK293 (1) and CD68-hlgGfc transfected HEK293 (2) cell lysate using anti-CD68 antibody at 1/1,000 dilution.



**Fig3:** Western blot analysis of CD68 on different cell lysate using anti-CD68 antibody at 1/1,000 dilution.

**Positive control:** Line1: U937 Line1: Hela Line2: HepG2 Line3: Jurkat



**Fig4:** ICC staining CD68 (green) and Actin filaments (red) in HeLa cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

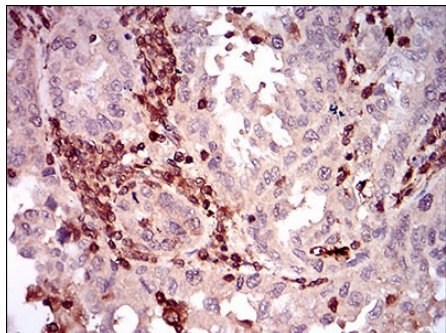
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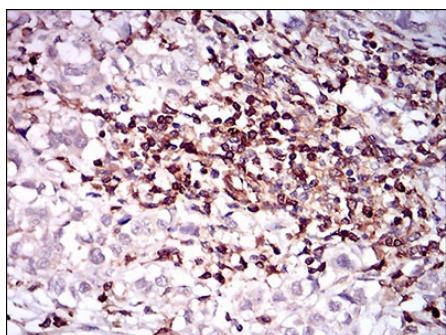
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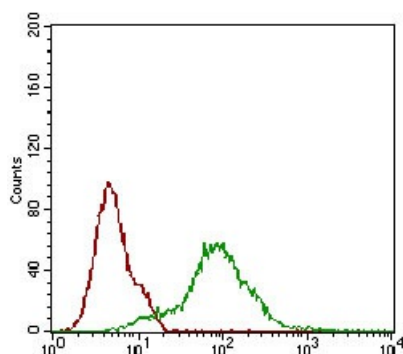
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**Fig5:** Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue using anti-CD68 antibody. Counter stained with hematoxylin.



**Fig6:** Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue using anti-CD68 antibody. Counter stained with hematoxylin.



**Fig7:** Flow cytometric analysis of HeLa cells with CD68 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Cao S et al. Hydrogen sulfide attenuates brain edema in early brain injury after subarachnoid hemorrhage in rats: Possible involvement of MMP-9 induced blood-brain barrier disruption and AQP4 expression. *Neurosci Lett* 621:88-97 (2016).
2. Qi X et al. Development of inCVAX, In situ Cancer Vaccine, and Its Immune Response in Mice with Hepatocellular Cancer. *J Clin Cell Immunol* 7:N/A (2016).

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