

# Anti-CD64 Antibody [5F5F8]

## EM1710-99



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P, FC
<b>Molecular Wt:</b>	42.6kDa
<b>Clone number:</b>	5F5F8

**Description:** This gene encodes a protein that plays an important role in the immune response. This protein is a high-affinity Fc-gamma receptor. The gene is one of three related gene family members located on chromosome 1.

**Immunogen:** Purified recombinant fragment of human CD64 (AA: extra 16-145) expressed in E. Coli.

**Positive control:** HL-60 cells bladder cancer

**Subcellular location:** Cell membrane. Stabilized at the cell membrane through interaction with FCER1G.

**Database links:** SwissProt: P12314 Human

### Recommended Dilutions:

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

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

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

**Purity:** Protein G affinity purified.

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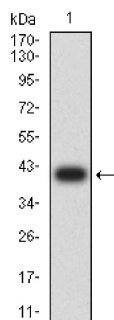
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Technical:0086-571-89986345

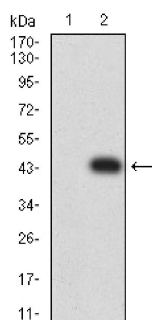
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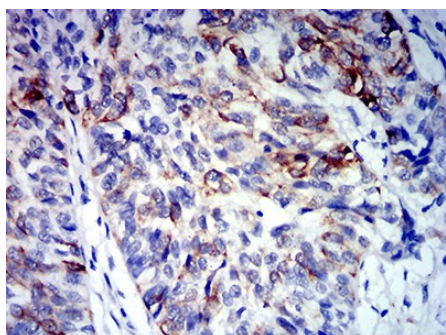
## Images



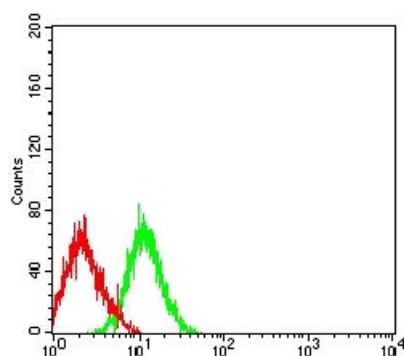
**Fig1:** Western blot analysis of CD64 against human CD64 (AA: extra 16-145) recombinant protein. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1710-99, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature.



**Fig2:** Western blot analysis of EM1710-99 against HEK293 (1) and CD64 (AA: extra 16-145)-hlgGfc transfected HEK293 (2) cell lysate. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM1710-99, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue using anti-CD64 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (EM1710-99, 1/100) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig4:** Flow cytometric analysis of CD64 was done on HL-60 cells. The cells were fixed, permeabilized and stained with the primary antibody (EM1710-99, 1/100) (green). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated goat anti-Mouse IgG Secondary antibody at 1/500 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; red).

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

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### Background References

1. Int J Lab Hematol. 2016 Oct;38(5):576-84.
2. Inflamm Res. 2016 Jul;65(7):579-85.

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