

# Anti-CD19 Antibody [A3-A8]

## EM40308



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	WB, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 61 kDa
<b>Clone number:</b>	A3-A8

**Description:** B-lymphocyte antigen CD19 also known as CD19 (Cluster of Differentiation 19), is a 95 kDa type-I transmembrane glycoprotein which is restricted to B cell antigen. On the B cell surface, CD19 associates with CD21, CD81 and Leu-13 to exert its function. CD19 is also found on the follicular dendritic cells and the early cells of myelomonocytic lineage but not on normal T cells, NK cells, monocytes, granulocytes, erythrocytes and platelets.

**Immunogen:** Synthetic peptide within human CD19 aa 110-190.

**Positive control:** Raji cell lysate, Daudi cell lysate, mouse lymphoid lysates, human spleen tissue, Daudi.

**Subcellular location:** Membrane.

**Database links:** SwissProt: P15391 Human | P25918 Mouse

### Recommended Dilutions:

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

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

Hangzhou HuaAn Biotechnology Co.,Ltd.

Orders: 0086-571-88062880

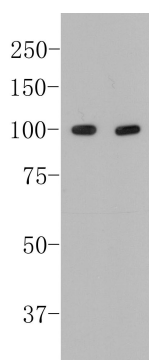
Technical:0086-571-89986345

Service mail: support@huabio.cn

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## Images



**Fig1:** Western blot analysis of CD19 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM40308, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:5,000 dilution was used for 1 hour at room temperature.

**Positive control:**

Lane 1: Raji cell lysate

Lane 2: Daudi cell lysate

**Fig2:** Western blot analysis of CD19 on mouse lymphoid lysates with Mouse anti-CD19 antibody (EM40308) at 1/500 dilution.

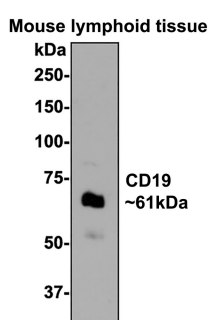
Lysates/proteins at 20 µg/Lane.

Predicted band size: 61 kDa

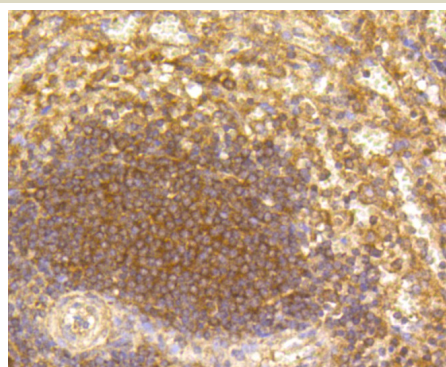
Observed band size: 61 kDa

Exposure time: 1 minute;

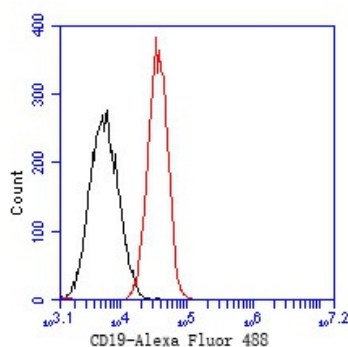
8% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (EM40308) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:100,000 dilution was used for 1 hour at room temperature.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-CD19 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) 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 (EM40308, 1/50) 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 CD19 was done on Daudi cells. The cells were fixed, permeabilized and stained with the primary antibody (EM40308, 1/50) (red). 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 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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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. van Zelm M C et al. An antibody-deficiency syndrome due to mutations in the CD19 gene. *N Engl J Med* 354:1901-1912 (2006).
2. Brooks S R et al. Systematic analysis of the role of CD19 cytoplasmic tyrosines in enhancement of activation in Daudi human B cells: clustering of phospholipase C and Vav and of Grb2 and Sos with different CD19 tyrosines. *J Immunol* 164:3123-3131 (2000).

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