

Anti-CD59 Antibody [JM10-71]

ET1703-28



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IP
Molecular Wt:	Predicted band size: 14 kDa
Clone number:	JM10-71

Description: CD59 glycoprotein, also known as MAC-inhibitory protein (MAC-IP), membrane inhibitor of reactive lysis (MIRL), or protectin, is a protein that in humans is encoded by the CD59 gene. It is an LU domain and belongs to the LY6/uPAR/alpha-neurotoxin protein family. CD59 attaches to host cells via a glycosphosphatidylinositol (GPI) anchor. When complement activation leads to deposition of C5b678 on host cells, CD59 can prevent C9 from polymerizing and forming the complement membrane attack complex. It may also signal the cell to perform active measures such as endocytosis of the CD59-C9 complex. Mutations affecting GPI that reduce expression of CD59 and decay-accelerating factor on red blood cells result in paroxysmal nocturnal hemoglobinuria. Viruses such as HIV, human cytomegalovirus and vaccinia incorporate host cell CD59 into their own viral envelope to prevent lysis by complement.

Immunogen: Synthetic peptide within Human CD59 aa 85-121 / 128.

Positive control: Human placenta tissue lysate, HUVEC cell lysate, K562 cell lysate.

Subcellular location: Cell membrane. Secreted.

Database links: SwissProt: P13987 Human | O55186 Mouse

Recommended Dilutions:

WB	1:1,000-1:5,000
IP	1:10-1:50

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

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

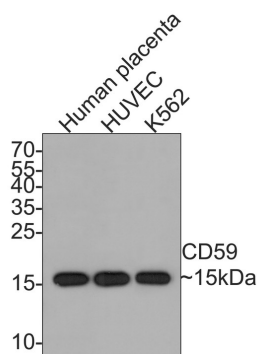
Images

Fig1: Western blot analysis of CD59 on different lysates with Rabbit anti-CD59 antibody (ET1703-28) at 1/2,000 dilution.

Lane 1: Human placenta tissue lysate (20 µg/Lane)

Lane 2: HUVEC cell lysate (10 µg/Lane)

Lane 3: K562 cell lysate (10 µg/Lane)



Predicted band size: 14 kDa

Observed band size: 15 kDa

Exposure time: 2 minutes;

15% 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 (ET1703-28) at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Alfonso J et al. Downregulation of Sphingosine 1-Phosphate Receptor 1 Promotes the Switch from Tangential to Radial Migration in the OB. J Neurosci 35:13659-72 (2015).
2. Bot M et al. Hematopoietic sphingosine 1-phosphate lyase deficiency decreases atherosclerotic lesion development in LDL-receptor deficient mice. PLoS One 8:e63360 (2013).

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