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DAF Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DAF.
Catalog # AT1709a

Product Information

Application	WB, E
Primary Accession	P08174
Other Accession	NM_000574
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1G3
Calculated MW	41400

Additional Information

Gene ID	1604
Other Names	Complement decay-accelerating factor, CD55, CD55, CR, DAF
Target/Specificity	DAF (NP_000565, 35 a.a. ~ 134 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DAF Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

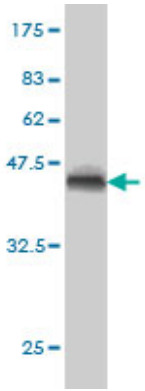
Background

This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating factor (DAF); binding of DAF to complement proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. Antigens present on the DAF glycoprotein constitute the Cromer blood group system (CROM). Two alternatively spliced transcripts encoding different proteins have been identified. The predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower levels. Additional, alternatively spliced transcript variants have been described, but their biological validity has not been determined.

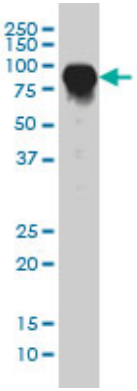
References

1.A novel form of Total Internal Reflection Fluorescence Microscopy (LG-TIRFM) reveals different and independent lipid raft domains in living cells.Asanov A, Zepeda A, Vaca L.Biochim Biophys Acta. 2009 Oct 17. [Epub ahead of print]

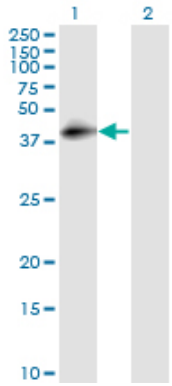
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

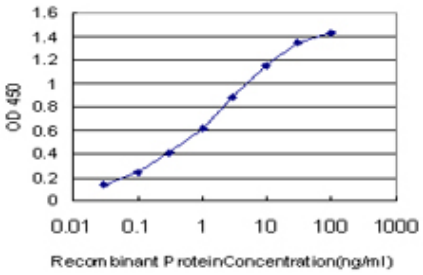


DAF monoclonal antibody (M01), clone 1G3 Western Blot analysis of DAF expression in HeLa ((Cat # AT1709a)



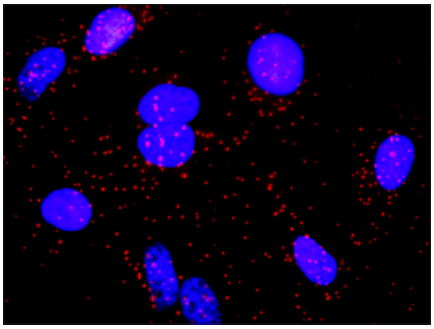
Western Blot analysis of CD55 expression in transfected 293T cell line by DAF monoclonal antibody (M01), clone 1G3.

Lane 1: CD55 transfected lysate(41.4 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged DAF is approximately 0.03ng/ml as a capture antibody.

Proximity Ligation Analysis of protein-protein interactions between LCK and CD55. HeLa cells were stained with anti-LCK rabbit purified polyclonal 1:1200 and anti-CD55 mouse monoclonal antibody 1:50. Each red dot



represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).