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ITGAM Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1869a

Product Information

Application	WB, ICC, E
Primary Accession	P11215
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3A10H5
Isotype	IgG1
Calculated MW	127179 Da
Description	This gene encodes the integrin alpha M chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Multiple transcript variants encoding different isoforms have been found for this gene.
Immunogen	Purified recombinant fragment of human ITGAM (AA: 623-728) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Other Names	Integrin alpha-M, CD11 antigen-like family member B, CR-3 alpha chain, Cell surface glycoprotein MAC-1 subunit alpha, Leukocyte adhesion receptor MO1, Neutrophil adherence receptor, CD11b, ITGAM, CD11B, CR3A
Dilution	WB~~1/500 - 1/2000 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ITGAM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

The protein encoded by this gene is a cell-surface glycoprotein and type I membrane protein that was originally identified as a myeloid cell-specific marker. The encoded protein was once thought to be a receptor for C1q, but now is thought to instead be involved in intercellular adhesion and in the clearance of apoptotic cells. The intracellular cytoplasmic tail of this protein has been found to interact with moesin, a protein known to play a role in linking transmembrane proteins to the cytoskeleton and in the remodelling of the cytoskeleton. ;

References

1. Ann Rheum Dis. 2012 Dec;71(12):2028-34. 2. J Infect Chemother. 2011 Apr;17(2):291-6.

Images

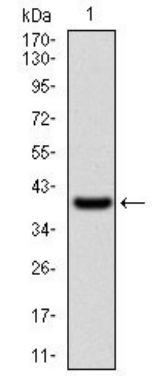

Figure 1: Western blot analysis using ITGAM mAb against human ITGAM recombinant protein. (Expected MW is 37.5 kDa)

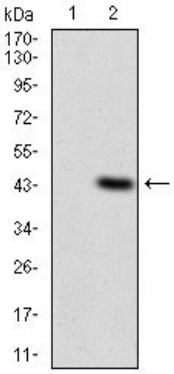

Figure 2: Western blot analysis using ITGAM mAb against HEK293 (1) and ITGAM (AA: 623-728)-hIgGFc transfected HEK293 (2) cell lysate.

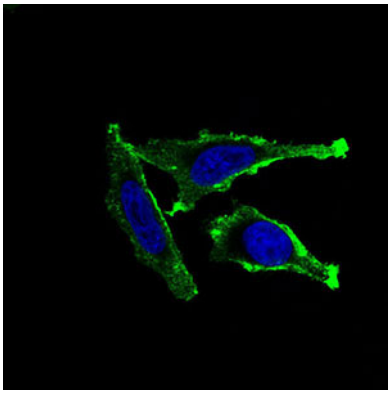

Figure 3: Immunofluorescence analysis of Hela cells using ITGAM mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.