

For Research Use Only

MYO1G Recombinant antibody

Catalog Number:83556-5-RR



Basic Information

Catalog Number: 83556-5-RR	GenBank Accession Number: BC113544	Purification Method: Protein A purification
Size: 100ul , Concentration: 800 ug/ml by Nanodrop;	GeneID (NCBI): 64005	CloneNo.: 240503E1
Source: Rabbit	UNIPROT ID: B0I1T2	Recommended Dilutions: WB 1:2000-1:16000 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: myosin IG	
Immunogen Catalog Number: AG22698	Calculated MW: 1018 aa, 116 kDa	
	Observed MW: 110-120 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : Jurkat cells, Ramos cells
Species Specificity: human	IF/ICC : Jurkat cells,

Background Information

MYO1G is a plasma membrane-associated class I myosin that is abundant in T and B lymphocytes and mast cells and expressed specifically in the haematopoietic system. Class I myosins have been implicated in various cellular processes relying on actin-dependent membrane dynamics such as endocytosis, secretion, adhesion, motility and regulation of mechanosensitive channels (PMID: 19968988). MYO1G localizes to the plasma membrane linked to PIP2 and PIP3, is particularly enriched at cell-surface microvilli, and associates in an ATP-releasable manner to the actin cytoskeleton (PMID: 24310084). MYO1G can be detected as about 110-120 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

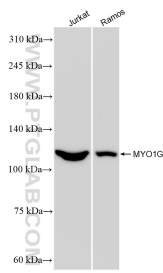
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

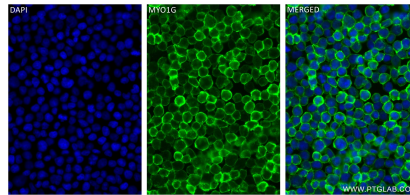
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

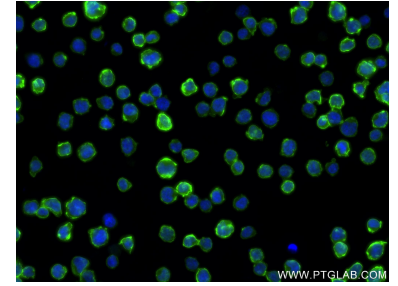
Selected Validation Data



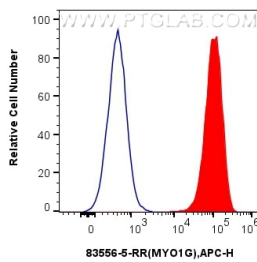
Various lysates were subjected to SDS PAGE followed by western blot with 83556-5-RR (MYO1G antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



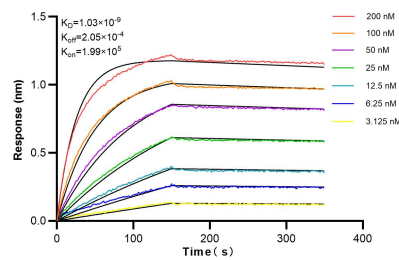
Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using MYO1G antibody (83556-5-RR, Clone: 240503E1) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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1×10^6 Jurkat cells were intracellularly stained with 0.25 μ g MYO1G Recombinant antibody (83556-5-RR, Clone:240503E1) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83556-5-RR against Human MYO1G were performed. The affinity constant is 1.03 nM.