

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: 800 ug/ml	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 IF/ICC : Jurkat cells,
Species Specificity: human	

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

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

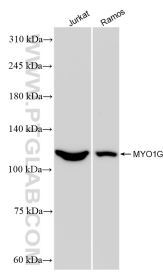
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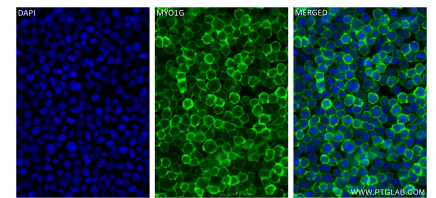
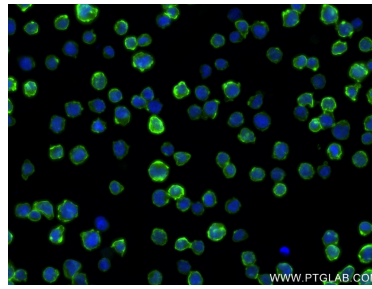
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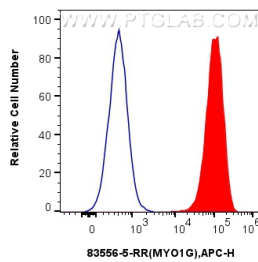
Selected Validation Data



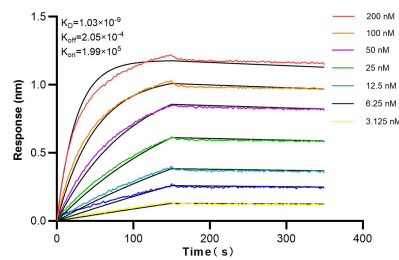
Various lysates were subjected to SDS PAGE followed by western blot with 83556-5-RR (MYO1G antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).



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 .