

For Research Use Only

MYO1G Recombinant antibody, PBS Only

Catalog Number:83556-5-PBS



Basic Information

Catalog Number: 83556-5-PBS	GenBank Accession Number: BC113544	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 64005	CloneNo.: 240503E1
Source: Rabbit	UNIPROT ID: B0I1T2	
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

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

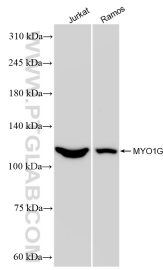
T: 4006900926

E: Proteintech-CN@ptglab.com

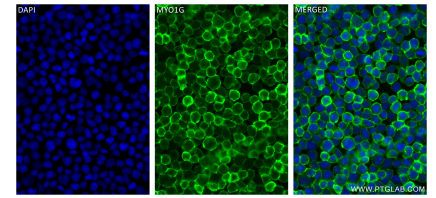
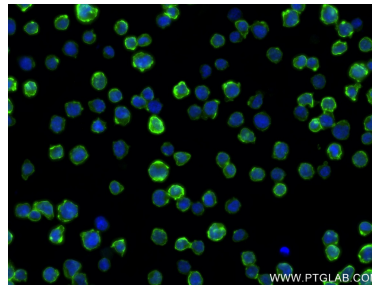
W: ptgcn.com

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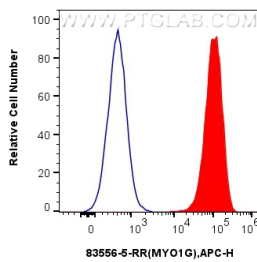
Selected Validation Data



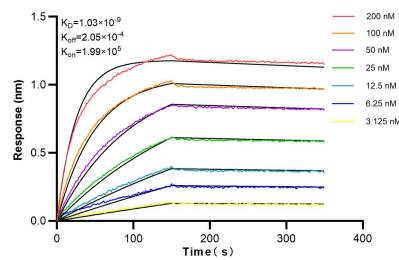
Various lysates were subjected to SDS PAGE followed by western blot with 83556-5-RR (MYO1G antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83556-5-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83556-5-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83556-5-PBS in a different storage buffer formulation.



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