

For Research Use Only

# MYO1G Recombinant antibody, PBS Only

Catalog Number: 83556-5-PBS



## Basic Information

<b>Catalog Number:</b> 83556-5-PBS	<b>GenBank Accession Number:</b> BC113544	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 64005	<b>CloneNo.:</b> 240503E1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> B0I1T2	
<b>Isotype:</b> IgG	<b>Full Name:</b> myosin IG	
<b>Immunogen Catalog Number:</b> AG22698	<b>Calculated MW:</b> 1018 aa, 116 kDa	
	<b>Observed MW:</b> 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

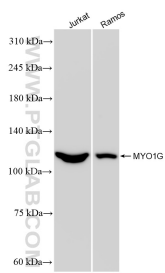
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

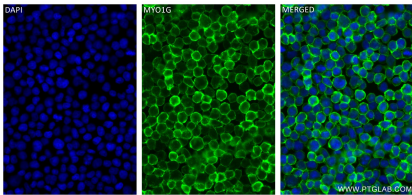
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

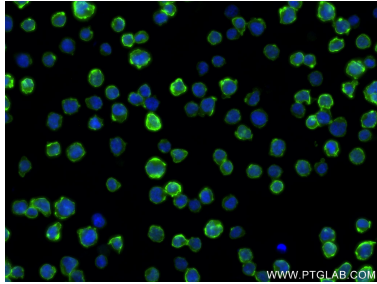
Selected Validation Data



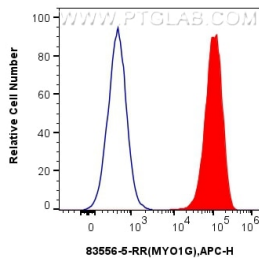
Various lysates were subjected to SDS PAGE followed by western blot with 83556-5-RR (MYO1G antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83556-5-PBS in a different storage buffer formulation.



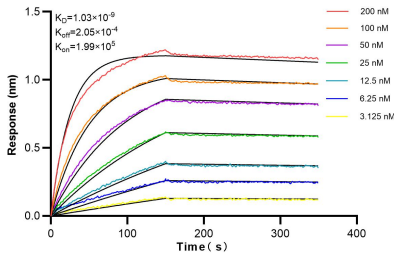
Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using MYO1G antibody (83556-5-RR, Clone: 240503E1 ) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83556-5-PBS in a different storage buffer formulation.



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 AffiniPure 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.



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.25 ug MYO1G Recombinant antibody (83556-5-RR, Clone:240503E1) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug 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.