

For Research Use Only

# MYO1G Polyclonal antibody

Catalog Number: 25772-1-AP



## Basic Information

### Catalog Number:

25772-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 307 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG22696

### GenBank Accession Number:

BC113544

### GeneID (NCBI):

64005

### UNIPROT ID:

B0I1T2

### Full Name:

myosin IG

### Calculated MW:

1018 aa, 116 kDa

### Observed MW:

110-120 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Species Specificity:

human

### Positive Controls:

WB : Jurkat cells, Raji cells

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

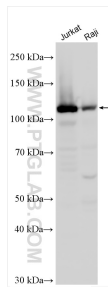
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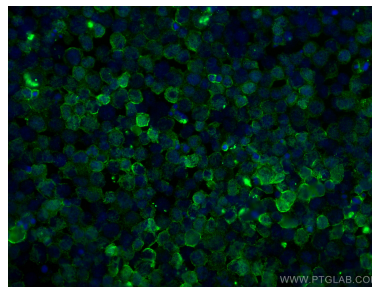
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25772-1-AP (MYO1G antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using MYO1G antibody (25772-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).