

# MYO1G Polyclonal antibody

Catalog Number: 25772-1-AP

## Basic Information

**Catalog Number:**

25772-1-AP

**Size:**

550 µg/ml

**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, 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:**

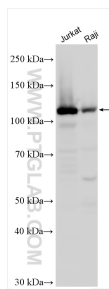
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

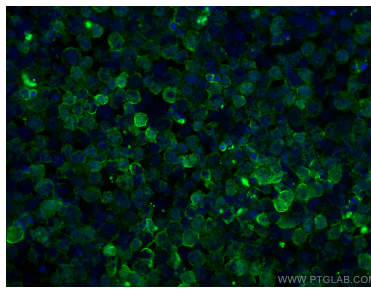
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## 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 AffiniPure Goat Anti-Rabbit IgG(H+L).