

For Research Use Only

# MYO6 Polyclonal antibody

Catalog Number: 26778-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

26778-1-AP

### Concentration:

350 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG24906

### GenBank Accession Number:

BC146764

### GeneID (NCBI):

4646

### UNIPROT ID:

Q9UM54

### Full Name:

myosin VI

### Calculated MW:

1285 aa, 149 kDa

### Observed MW:

145-150 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: HEK-293 cells, mouse small intestine tissue, DU 145 cells, LNCaP cells, MCF-7 cells

**IP**: PC-3 cells,

**IHC**: human prostate cancer tissue, human small intestine tissue

**IF-P**: mouse small intestine tissue,

**IF/ICC**: MCF-7 cells,

## Background Information

MYO6, an actin-based motor protein, is the only myosin known to move toward the minus end of actin filaments. MYO6 is highly expressed in the inner and outer hair cells of the ear, retina, and polarized epithelial cells such as kidney proximal tubule cells and intestinal enterocytes. And it participates in a wide range of biological processes within cells, including clathrin-mediated endocytosis, vesicular membrane traffic, polarized secretion, and autophagy (PMID: 23620821; PMID: 28591580). Previous studies showed that MYO6 is upregulated in various types of cancer, and it has been widely reported to contribute to tumor cell migration and metastasis. Some articles indicate that MYO6 is associated with prostate cancer, lung cancer, human colorectal cancer and gastric cancer (PMID: 29022908).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shichen Hu	31371777	Nat Commun	WB
Shengfeng Zheng	39449086	Cell Commun Signal	IHC
Magdalena Izdebska	39445095	Cancer Manag Res	IF

## 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:

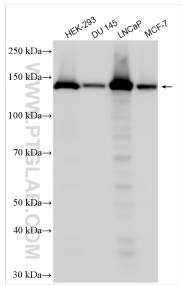
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

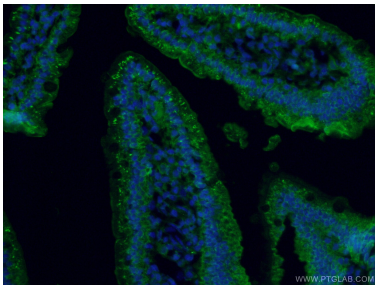
W: [ptgcn.com](http://ptgcn.com)

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

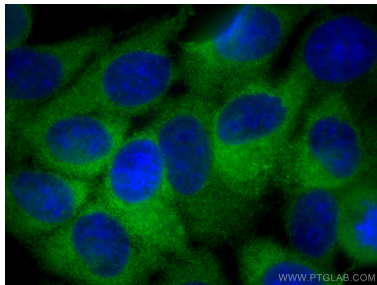
Selected Validation Data



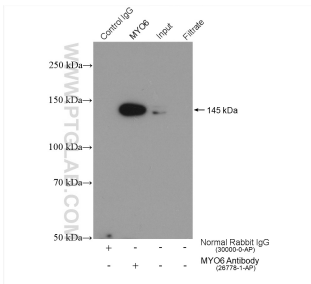
Various lysates were subjected to SDS PAGE followed by western blot with 26778-1-AP (MYO6 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



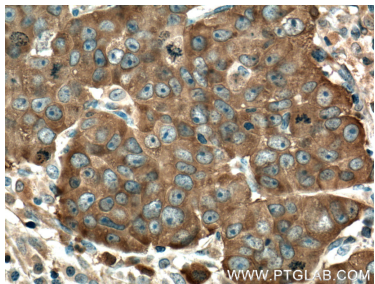
Immunofluorescent analysis of (4% PFA) fixed mouse small intestine tissue using 26778-1-AP (MYO6 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using MYO6 antibody (26778-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



IP result of anti-MYO6 (IP:26778-1-AP, 4ug; Detection:26778-1-AP 1:500) with PC-3 cells lysate 2000 ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 26778-1-AP (MYO6 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).