

For Research Use Only

# WAPL Polyclonal antibody

Catalog Number: 16370-1-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

16370-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9280

### GenBank Accession Number:

BC017393

### GeneID (NCBI):

23063

### UNIPROT ID:

Q7Z5K2

### Full Name:

wings apart-like homolog (Drosophila)

### Calculated MW:

142 kDa

### Observed MW:

160-180 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IF, ChIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**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-293T cells, HeLa cells, HepG2 cells, Jurkat cells

IHC : mouse skeletal muscle tissue,

IF/ICC : HepG2 cells,

## Background Information

The wings apart-like (WAPL, or WAPAL) protein was originally identified as a gene product that potentially regulates heterochromatin organization in *Drosophila melanogaster*. Human WAPL is a cohesin-binding protein that promotes sister-chromatid resolution in mitotic prophase. Overexpression of WAPL disturbs mitosis and cytokinesis, and contributes to tumor progression by induction of chromosomal instability. WAPAL has a predicted molecular weight of 140 kDa, however, as a result of its extensive phosphorylation it separates on a SDS gel as a band of approximately 160-180 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yaping Sun	36043052	iScience	WB
Tom van Schaik	36050765	Genome Biol	WB
Shu Zhang	34678064	Sci Adv	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

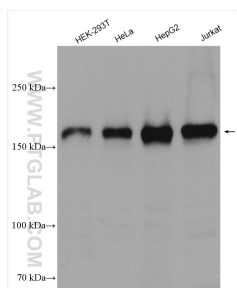
For technical support and original validation data for this product please contact:

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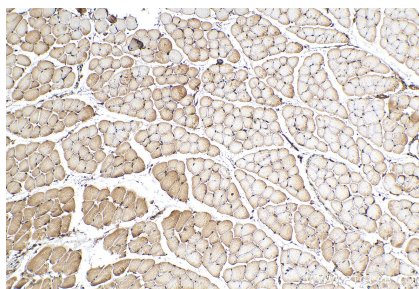
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16370-1-AP (WAPL; WAPAL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 16370-1-AP (WAPL; WAPAL antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using WAPL; WAPAL antibody (16370-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).