

For Research Use Only

# RUNX1 (middle) Polyclonal antibody

Catalog Number: 25315-1-AP

Featured Product

31 Publications



## Basic Information

### Catalog Number:

25315-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG17838

### GenBank Accession Number:

BC136381

### GeneID (NCBI):

861

### UNIPROT ID:

Q01196

### Full Name:

runt-related transcription factor 1

### Calculated MW:

480 aa, 52 kDa

### Observed MW:

48-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:5000

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

IHC 1:50-1:500

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**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: Jurkat cells, mouse thymus tissue

IP: Jurkat cells,

IHC: human colon cancer tissue, human ovary tumor tissue

IF/ICC: HepG2 cells,

## Background Information

Runt-related transcription factor 1 (RUNX1), also named AML1 or CBF alpha 2, is a 453 amino acid protein, which contains one Runt domain. RUNX1 localizes in the nucleus and is expressed in all tissues except the brain and heart. RUNX1 is involved in hematopoiesis and is frequently targeted in human leukemia by chromosomal translocations that fuse the DNA-binding domain of RUNX1 to other transcription factors and corepressor molecules. In addition to its role in leukemogenesis, RUNX1 is also involved in sensory neuron diversification. RUNX1 exists in some isoforms with a range of MV 20-52 kDa. The calculated molecular weight of isoform 1 is 49 kDa, but the modified protein is about 49-55 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rabindranath Bera	31640815	J Hematol Oncol	WB
Vishnu Amaram Samara	34685676	Cells	IHC
Lu Zhang	32489318	Cancer Cell Int	IP

## 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

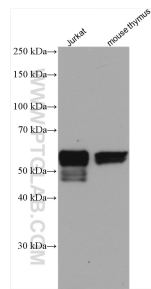
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

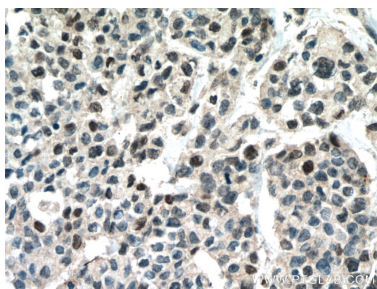
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

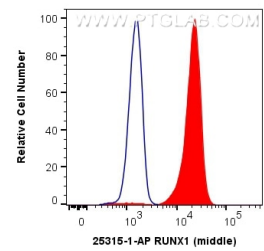
Selected Validation Data



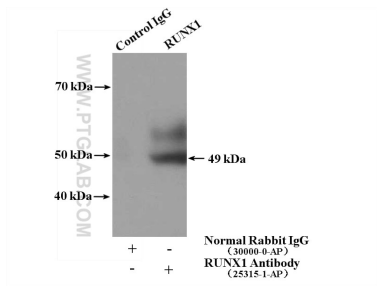
Various lysates were subjected to SDS PAGE followed by western blot with 25315-1-AP (RUNX1 (middle) antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



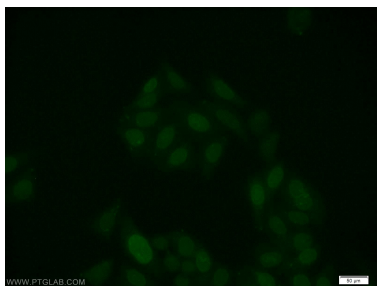
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 25315-1-AP (RUNX1 (middle) antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.5 ug Anti-Human RUNX1 (middle) (25315-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



IP result of anti-RUNX1 (middle) (IP:25315-1-AP, 4ug; Detection:25315-1-AP 1:300) with Jurkat cells lysate 3440ug.



Immunofluorescent analysis of HepG2 cells using 25315-1-AP (RUNX1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).