For Research Use Only

RUNX1 (middle) Polyclonal antibody

Catalog Number:25315-1-AP Featured Product 19 Publications

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Basic Information

Catalog Number:
25315-1-AP

Size:
1000 μg/ml

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 1:10-1:100

Applications

Tested Applications:
FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IP, IF, IHC, ChIP

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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 : Jurkat cells, mouse thymus tissue

IP : Jurkat cells,

IHC : human colon cancer tissue, human ovary tumor tissue

IF : 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

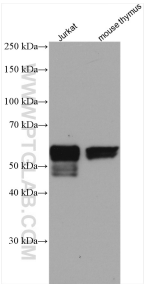
Author	Pubmed ID	Journal	Application
Rabindranath Bera	31640815	J Hematol Oncol	WB
Vishnu Amaram Samara	34685676	Cells	IHC
Lu Zhang	32489318	Cancer Cell Int	IP

Storage

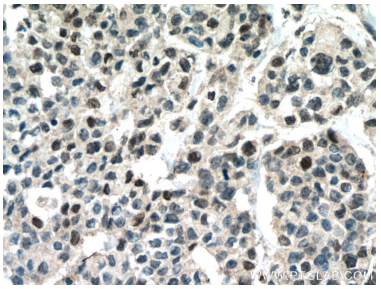
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

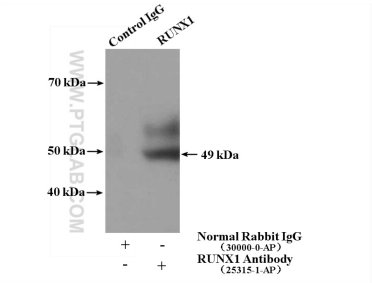
Selected Validation Data



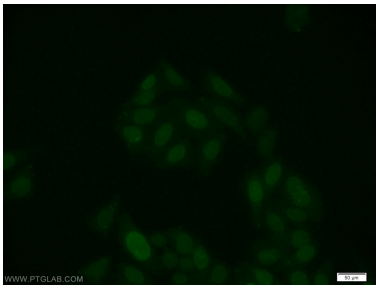
Various lysates were subjected to SDS PAGE followed by western blot with 25315-1-AP (RUNX1 (middle) antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



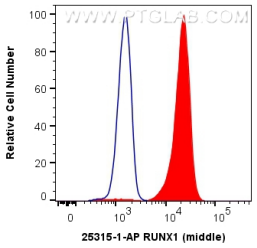
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 25315-1-AP (RUNX1 (middle) antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10^6 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).