

For Research Use Only

RUNX2 Polyclonal antibody

Catalog Number: 20700-1-AP

Featured Product

189 Publications



Basic Information

Catalog Number:

20700-1-AP

Size:

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

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_004348

GeneID (NCBI):

860

UNIPROT ID:

Q13950

Full Name:

runt-related transcription factor 2

Calculated MW:

57 kDa

Observed MW:

57-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

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

IHC 1:250-1:1000

IF/ICC 1:200-1:800

Applications

Tested Applications:

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

Cited Applications:

WB, IHC, IF, IP, ChIP

Species Specificity:

human, rat

Cited Species:

human, mouse, rat, pig, chicken

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: ROS1728 cells, MCF-7 cells

IP: ROS1728 cells,

IHC: rat skin tissue, rat kidney tissue

IF/ICC: ROS1728 cells,

Background Information

RUNX2, also named as AML3, CBFA1, OSF2 and PEBP2A, is a Transcription factor which involved in osteoblastic differentiation and skeletal morphogenesis. It is essential for the maturation of osteoblasts and both intramembranous and endochondral ossification. CBF binds to the core site, 5'-PYGPGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, osteocalcin, osteopontin, bone sialoprotein, alpha 1(I) collagen, LCK, IL-3 and GM-CSF promoters. By similarity, RUNX2 inhibits MYST4-dependent transcriptional activation. The antibody is specific to RUNX2.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|--------------------|-------------|
| Yitong Zhao | 36156740 | J Bone Miner Metab | WB |
| Ki Mo Lee | 28946662 | Int J Mol Sci | WB |
| Lishan Lin | 36232582 | Int J Mol Sci | WB, IF |

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

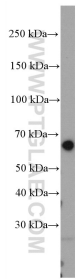
For technical support and original validation data for this product please contact:

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

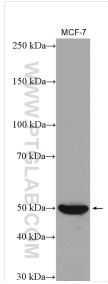
E: proteintech@ptglab.com
W: ptglab.com

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

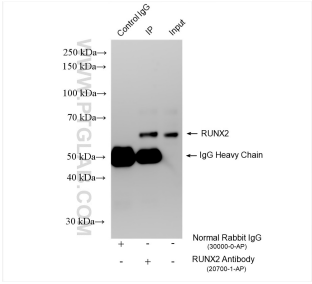
Selected Validation Data



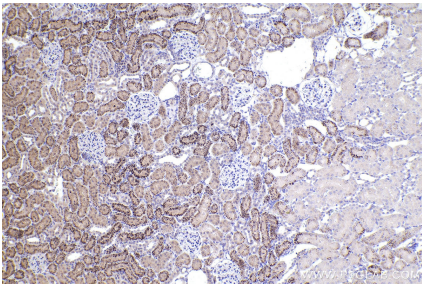
ROS1728 cells were subjected to SDS PAGE followed by western blot with 20700-1-AP (RUNX2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



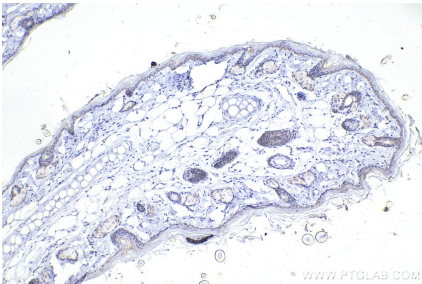
MCF-7 cells were subjected to SDS PAGE followed by western blot with 20700-1-AP (RUNX2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



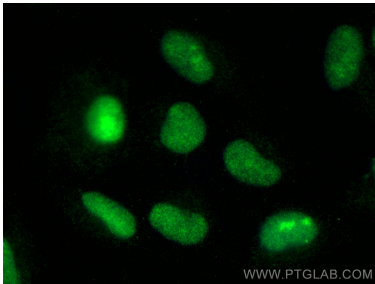
IP result of anti-RUNX2 (IP:20700-1-AP, 4ug; Detection:20700-1-AP 1:1000) with ROS1728 cells lysate 2000 ug.



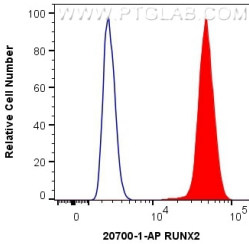
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 20700-1-AP (RUNX2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat skin tissue slide using 20700-1-AP (RUNX2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed ROS1728 cells using RUNX2 antibody (20700-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human RUNX2 (20700-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).