

RUNX2 Rabbit pAb

Catalog No.: A2851SP

114 Publications

Basic Information

Observed MW

33-66 kDa

Calculated MW

57 kDa

Category

Primary antibody

Applications

WB, IP, IF-F, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

This gene is a member of the RUNX family of transcription factors and encodes a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Two regions of potential trinucleotide repeat expansions are present in the N-terminal region of the encoded protein, and these and other mutations in this gene have been associated with the bone development disorder cleidocranial dysplasia (CCD). Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing.

Recommended Dilutions

WB 1:5000 - 1:30000**IP** 0.5 µg - 4 µg antibody for
200 µg - 400 µg extracts of
whole cells**IF-F** 1:200 - 1:400**IHC-P** 1:2000 - 1:8000**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay
requirements. For high-ratio
antibody dilutions
(≥1:10000) a sequential
dilution method is strongly
recommended to ensure
measurement accuracy.

Immunogen Information

Gene ID

860

Swiss Prot

Q13950

Immunogen

This information is considered to be commercially sensitive.

Synonyms

CCD; AML3; CCD1; CLCD; OSF2; CBFA1; OSF-2; PEA2aA; PEBP2aA; CBF-alpha-1; RUNX2

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C

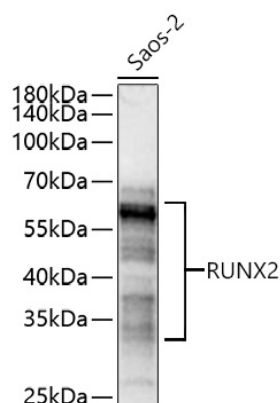
Contact

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Validation Data



Western blot analysis of lysates from Saos-2 cells using RUNX2 Rabbit pAb (A2851SP) at 1:10000 dilution incubated overnight at 4°C.

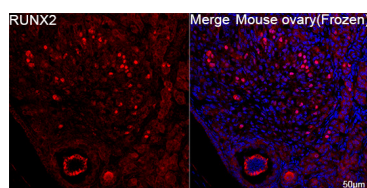
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

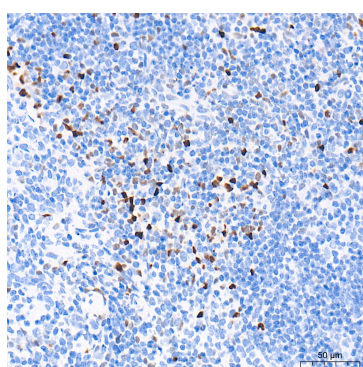
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1 s.



Confocal imaging of frozen sections of Mouse ovary tissue using RUNX2 Rabbit pAb (A2851SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using RUNX2 Rabbit pAb (A2851SP) at a dilution of 1:6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.