RUNX2 Rabbit pAb

Catalog NO.: A2851 **118 Publications**

Basic Information

Observed MW
60 kDa

Calculated MW
57 kDa

Category
Polyclonal Antibodies

Applications
WB, IP, IF-P, IHC-P, ChIP, ELISA

Cross-Reactivity
Human, Mouse, Rat

Conjugation
Unconjugated

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 1:500 - 1:5000

IP
0.5 µg - 4 µg antibody for 400 µg - 600 µg extracts of whole cells

IF-P 1:50 - 1:200

IHC-P 1:50 - 1:200

ChIP 2 µg antibody for 10 µg - 25 µg of Chromatin

ELISA
Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

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

Contact

Product Information

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www.abclonal.com

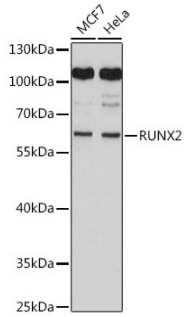
Source
Rabbit

Isotype
IgG

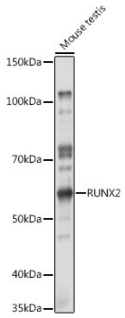
Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

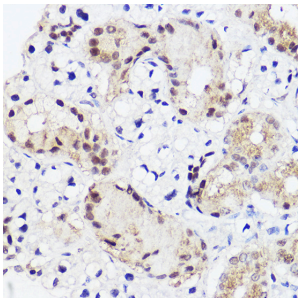
Validation Data

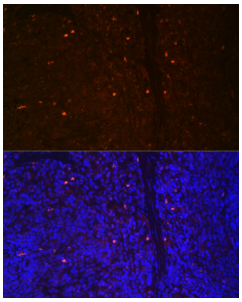


Western blot analysis of various lysates using RUNX2 Rabbit pAb (A2851) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.



Western blot analysis of lysates from Mouse testis, using RUNX2 Rabbit pAb (A2851) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.





Immunohistochemistry analysis of paraffin-embedded Mouse salivary gland using RUNX2 Rabbit pAb (A2851) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

Immunofluorescence analysis of paraffin-embedded rat spleen using RUNX2 Rabbit pAb (A2851) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.