

RUNX2 Antibody
Rabbit mAb
Catalog # AP90864

Specification

RUNX2 Antibody - Product Information

Application	IHC, ICC
Primary Accession	O13950
Reactivity	Rat
Clonality	Monoclonal

Other Names

Runt-related transcription factor 2; Acute myeloid leukemia 3 protein; Core-binding factor subunit alpha-1; CBF-alpha-1; Oncogene AML-3; Osteoblast-specific transcription factor 2; OSF-2; Polyomavirus enhancer-binding protein 2 alpha A subunit; CBFA1; CCD1; PEBP2aA;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	56648 Da

RUNX2 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human RUNX2
Description	RUNX2 regulates the transcription of various genes, including osteopontin, bone sialoprotein, and osteocalcin, via binding to the core site of the enhancers or promoters. RUNX2 is crucial for the maturation of osteoblasts and both intramembranous and endochondral ossification.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

RUNX2 Antibody - Protein Information

Name RUNX2

Synonyms AML3, CBFA1, OSF2, PEBP2A

Function

Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis (PubMed: [28505335](http://www.uniprot.org/citations/28505335), PubMed: [28703881](http://www.uniprot.org/citations/28703881), PubMed: [28738062](http://www.uniprot.org/citations/28738062)).

Essential for the maturation of osteoblasts and both intramembranous and endochondral ossification. CBF binds to the core site, 5'-PYGPYGGT-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. In osteoblasts, supports transcription activation: synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE) (By similarity). Inhibits KAT6B-dependent transcriptional activation.

Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q08775}

Tissue Location

Specifically expressed in osteoblasts.

RUNX2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RUNX2 Antibody - Images