

CBFA1 / RUNX2 Antibody (clone 3F5)
Mouse Monoclonal Antibody
Catalog # ALS13287**Specification**

CBFA1 / RUNX2 Antibody (clone 3F5) - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q13950
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	57kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

CBFA1 / RUNX2 Antibody (clone 3F5) - Additional Information**Gene ID** 860**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, PEA2-alpha A, PEBP2-alpha A, SL3-3 enhancer factor 1 alpha A subunit, SL3/AKV core-binding factor alpha A subunit, RUNX2, AML3, CBFA1, OSF2, PEBP2A

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

CBFA1 / RUNX2 Antibody (clone 3F5) is for research use only and not for use in diagnostic or therapeutic procedures.

CBFA1 / RUNX2 Antibody (clone 3F5) - 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}

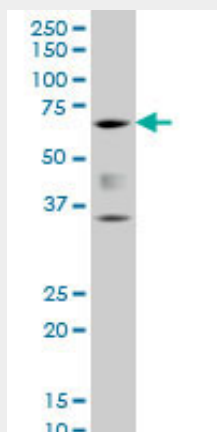
Tissue Location

Specifically expressed in osteoblasts.

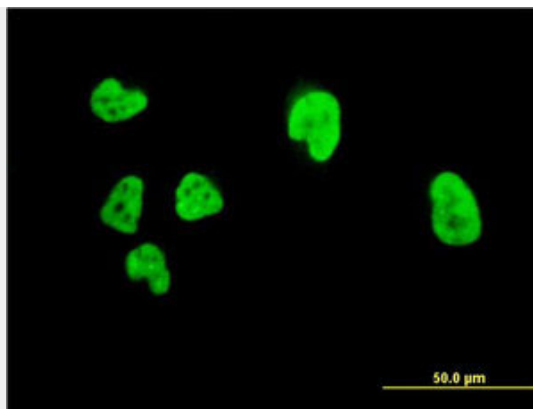
CBFA1 / RUNX2 Antibody (clone 3F5) - Protocols

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

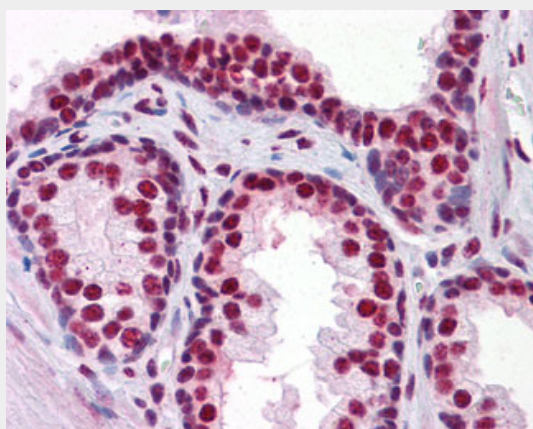
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CBFA1 / RUNX2 Antibody (clone 3F5) - Images

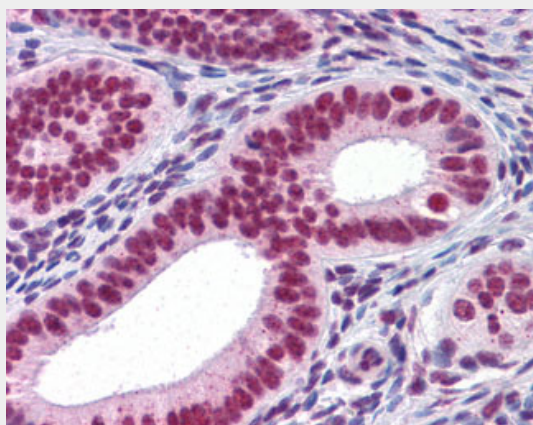
RUNX2 monoclonal antibody, clone 3F5 Western blot of RUNX2 expression in PC-12.



Immunofluorescence of monoclonal antibody to RUNX2 on HeLa cell (antibody concentration 10 ug/ml).



Anti-RUNX2 antibody IHC of human prostate.



Anti-RUNX2 antibody IHC of human uterus.

CBFA1 / RUNX2 Antibody (clone 3F5) - Background

Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis. 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.

CBFA1 / RUNX2 Antibody (clone 3F5) - References

Mundlos S.,et al.Cell 89:773-779(1997).
Geoffroy V.,et al.Mamm. Genome 9:54-57(1998).
Mungall A.J.,et al.Nature 425:805-811(2003).
Xiao Z.S.,et al.Gene 214:187-197(1998).
Zhang Y.-W.,et al.Oncogene 15:367-371(1997).