

# RUNX2 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant RUNX2. Catalog # AT3744a

## **Product Information**

WB, IHC, IF, E
<u>Q13950</u>
<u>NM_004348</u>
Human
mouse
monoclonal
IgG2a Kappa
1D2
56648

### **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
Target/Specificity	RUNX2 (NP_004339, 251 a.a. ~ 350 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	RUNX2 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

# 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. 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.

## References

1.Relative impact of uniaxial alignment vs. form-induced stress on differentiation of human adipose derived stem cells.Qu X, Zhu W, Huang S, Li YS, Chien S, Zhang K, Chen SBiomaterials. 2013 Dec;34(38):9812-8. doi: 10.1016/j.biomaterials.2013.09.009. Epub 2013 Sep 20.

## Images



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.