OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM20584PU-N

RUNX2 Mouse Monoclonal Antibody [Clone ID: 1D2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1D2
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**ELISA**. **Immunofluorescence:** 10 µg/ml. **Immunohistochemistry on Paraffin Sections:** 5 µg/ml. **Western Blot**.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Partial Recombinant RUNX2 (NP_004339, 251 a.a. ~ 351 a.a) protein with GST tag.
Specificity:	Recognizes Runt-related Transcription Factor 2 (RUNX2).
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	runt related transcription factor 2
Database Link:	Entrez Gene 860 Human Q13950

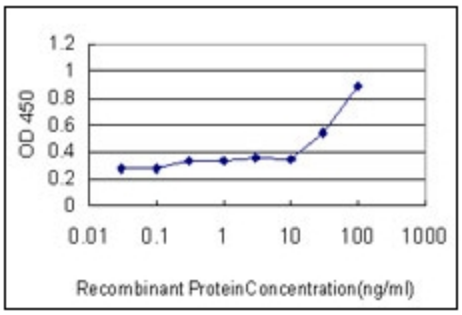
View online »

Background: RUNX family members are DNA-binding proteins that regulate the expression of genes involved in cellular differentiation and cell cycle progression. RUNX2 is essential for skeletal mineralization in that it stimulates osteoblast differentiation of mesenchymal stem cells, promotes chondrocyte hypertrophy and contributes to endothelial cell migration and vascular invasion of developing bones. Regulating RUNX2 expression may be a useful therapeutic tool for promoting bone formation. Mutations in the C-terminus of RUNX2 are associated with cleidocranial dysplasia syndrome, an autosomal-dominant skeletal dysplasia syndrome that is characterized by widely patent calvarial sutures, clavicular hypoplasia, supernumerary teeth, and short stature.

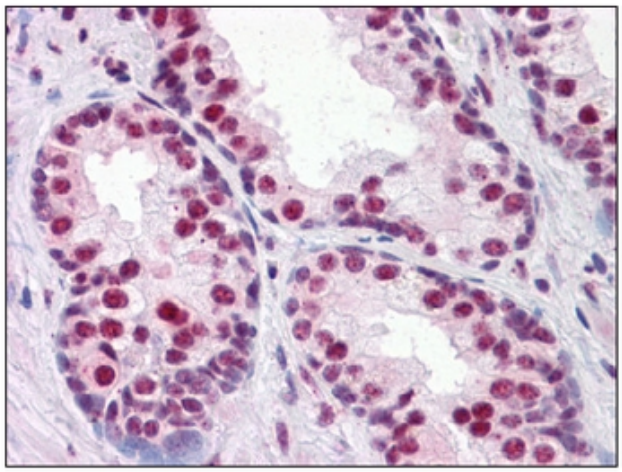
Synonyms: Runt-related transcription factor 2, Acute myeloid leukemia 3 protein, AML3, AML-3, CBFA1, OSF2, OSF-2, PEBP2A, PEA2-alpha A, PEBP2-alpha A

Protein Families: Druggable Genome, Transcription Factors

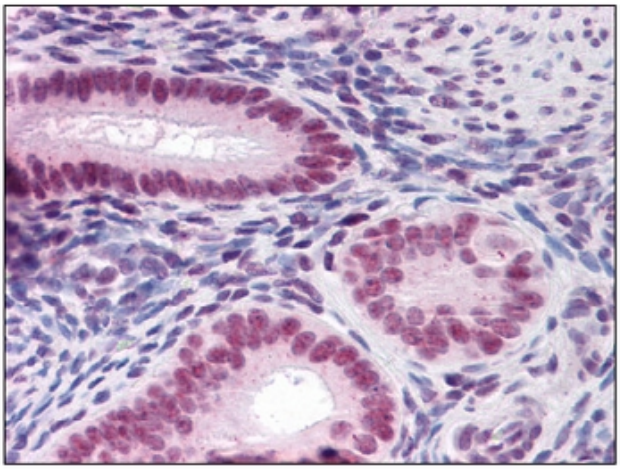
Product images:



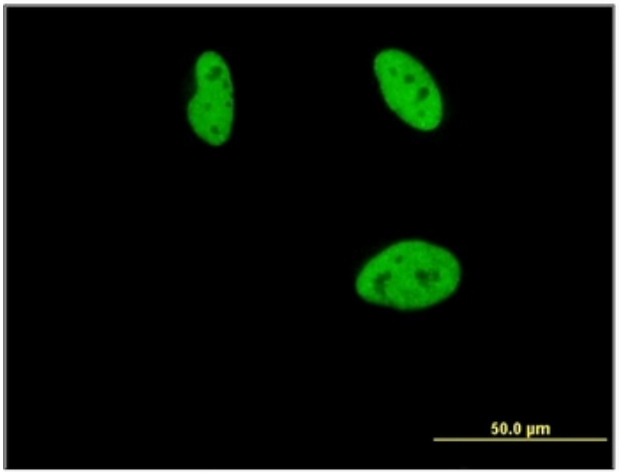
Detection limit for recombinant GST tagged RUNX2 is approximately 0.3 ng/ml as a capture antibody.



Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Uterus: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of monoclonal antibody to RUNX2 antibody on HeLa cell at 10 ug/ml.