

Product datasheet for **AP01513PU-M**

RUNX2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/200-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of RUNX-2 protein. (region surrounding Asp198)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~50.0 kDa
Gene Name:	runt related transcription factor 2
Database Link:	Entrez Gene 860 Human Q13950

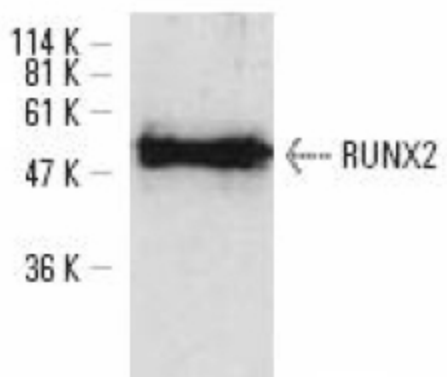
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Background:

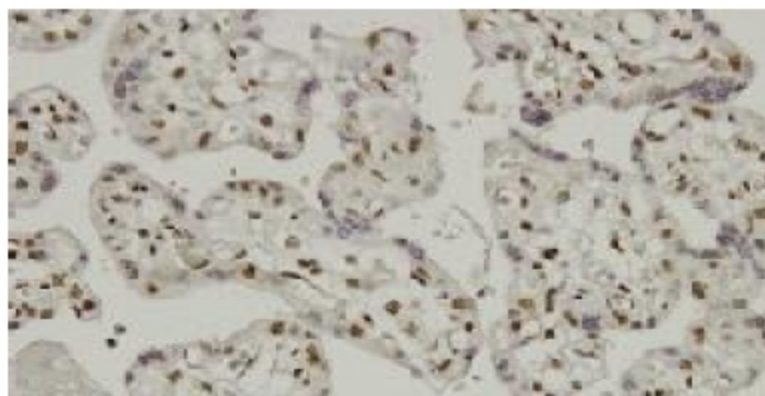
The mammalian Runt-related transcription factor (RUNX) family comprises three members, RUNX1 (also designated AML-1, PEBP2alphaB, CBFA2), RUNX2 (also designated AML-3, PEBP2alphaA, CBFA1, Osf2) and RUNX3 (also designated AML-2, PEBPalphaC, CBFA3). RUNX family members are DNA-binding proteins that regulate 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

Product images:


Western blot analysis of RUNX-2 Antibody (Cat.-No [AP01513PU-N]) in extracts from MDCK whole cell lysate.



Immunohistochemistry analysis of RUNX-2 Antibody (Cat.-No [AP01513PU-N]) in paraffin-embedded human placenta tissue.