

## Product datasheet for **TA813668**

### **RUNX2 Mouse Monoclonal Antibody [Clone ID: OTI3E12]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI3E12
Applications:	WB
Recommended Dilution:	WB 1:1000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-293 of human RUNX2 (NP_004339) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54.9 kDa
Gene Name:	runt related transcription factor 2
Database Link:	<a href="#">NP_004339</a> <a href="#">Entrez Gene 12393 Mouse</a> <a href="#">Entrez Gene 367218 Rat</a> <a href="#">Entrez Gene 860 Human</a> <a href="#">Q13950</a>


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**Background:**

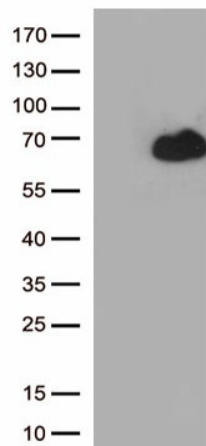
This gene is a member of the RUNX family of transcription factors and encodes a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Two regions of potential trinucleotide repeat expansions are present in the N-terminal region of the encoded protein, and these and other 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. [provided by RefSeq, Jul 2016]

**Synonyms:**

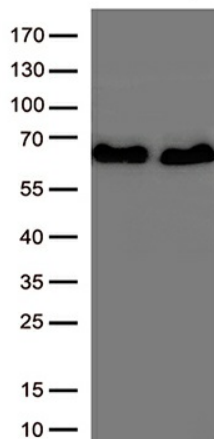
AML3; CBFA1; CCD; CCD1; OSF-2; OSF2; PEA2aA; PEBP2A1; PEBP2A2; PEBP2aA; PEBP2aA1

**Protein Families:**

Druggable Genome, Transcription Factors

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RUNX2 (Cat# [RC213097], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RUNX2 antibody (Cat# TA813668)(1:1000)



HEK293T cells were transfected with the RUNX2 transcript variant 1 (Cat# [RC212884], Left lane) or RUNX2 transcript variant 2 (Cat# [RC212936], Right lane) cDNA clone for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RUNX2 antibody (Cat# TA813668).