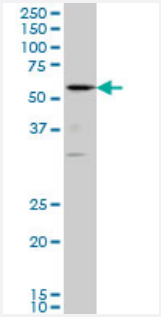
RUNX2 monoclonal antibody (M04), clone 4D5

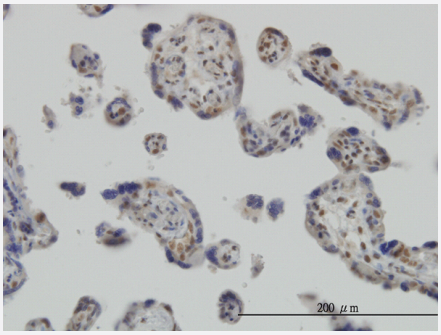
Catalog # H00000860-M04 Size 100 ug

Applications



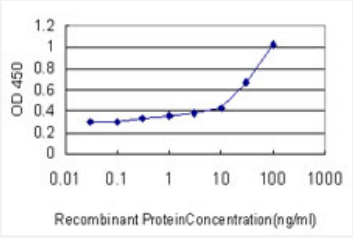
Western Blot (Cell lysate)

RUNX2 monoclonal antibody (M04), clone 4D5 Western Blot analysis of RUNX2 expression in PC-12 (Cat # L012V1).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to RUNX2 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RUNX2 is approximately 10ng/ml as a capture antibody.

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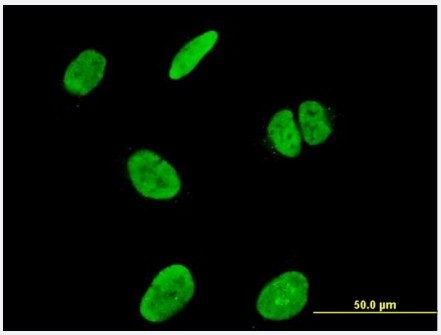
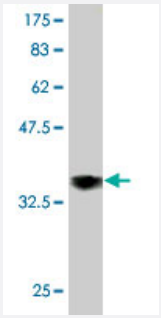


Immunofluorescence

Immunofluorescence of monoclonal antibody to RUNX2 on U-2 OS cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant RUNX2.
Immunogen	RUNX2 (NP_004339, 251 a.a. ~ 350 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	NPRPSLNSAPSPFNPQGQSQITDPRQAQSSPPWSYDQSYPSYLSQMTSPSIHSTTPLSSTRGTGLPAITDVPRRISDDDTATSDFCLWPSTLSKKSQAGA
Host	Mouse
Reactivity	Human, Rat
Interspecies Antigen Sequence	Mouse (99); Rat (98)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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Applications

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  Protocol Download

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  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to RUNX2 on U-2 OS cell . [antibody concentration 10 ug/ml]

Gene Info — RUNX2

Entrez GeneID	860
GeneBank Accession#	NM_004348
Protein Accession#	NP_004339
Gene Name	RUNX2
Gene Alias	AML3, CBFA1, CCD, CCD1, MGC120022, MGC120023, OSF2, PEA2aA, PEBP2A1, PEBP2A2, PEBP2aA, PEBP2aA1
Gene Description	runt-related transcription factor 2
Omim ID	119600 600211

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Gene Ontology	Hyperlink
Gene Summary	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 sk eletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in sk eletal 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 d evelopment disorder cleidocranial dysplasia (CCD). Transcript variants that encode different prot ein isoforms result from the use of alternate promoters as well as alternate splicing. [provided by RefSeq
Other Designations	CBF-alpha 1|OTTHUMP00000016533|SL3-3 enhancer factor 1 alpha A subunit|SL3/AKV core-bi nding factor alpha A subunit|acute myeloid leukemia 3 protein|core-binding factor, runt domain, al pha subunit 1|osteoblast-specific transcription factor 2|polyomavirus e

Publication Reference

- Inhibition of HIF-1α restrains fracture healing via regulation of autophagy in a rat model.

  Qiao J, Huang J, Zhou M, Cao G, Shen H.

  Experimental and Therapeutic Medicine 2019 Mar; 17(3):1884.

  Application: IHC-P, Rat, Rat bone tissues

Disease

- Alzheimer disease
- Bone Diseases
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Cleidocranial Dysplasia
- Diabetes Complications
- Diabetes Mellitus
- Fractures
- Genetic Predisposition to Disease
- Metabolic Syndrome X

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- Neoplasms
- Ossification of Posterior Longitudinal Ligament
- Osteoporosis
- Tobacco Use Disorder

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