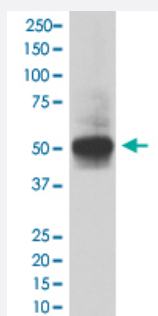


RUNX1/RUNX2/RUNX3 monoclonal antibody, clone DOG-18

Catalog # MAB20684

Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of MOLT4 cell lysate with RUNX1/RUNX2/RUNX3 monoclonal antibody, clone DOG-18 (Cat # MAB20684).

Specification

Product Description Rabbit monoclonal antibody raised against synthetic peptide of human RUNX1/RUNX2/RUNX3.

Immunogen A synthetic peptide corresponding to human RUNX1/RUNX2/RUNX3.

Host Rabbit

Reactivity Human

Form Liquid

Purification Affinity purification

Isotype IgG

Recommend Usage

- Flow Cytometry
- Immunocytochemistry (1:50-1:200)
- Immunofluorescence (1:50-1:200)
- Immunohistochemistry (1:50-1:200)
- Immunoprecipitation (1:50)
- Western Blot (1:500-1:2000)
- The optimal working dilution should be determined by the end user.

Storage Buffer In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).

Storage Instruction

Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of MOLT4 cell lysate with RUNX1/RUNX2/RUNX3 monoclonal antibody, clone DOG-18 (Cat # MAB20684).

- Immunohistochemistry

- Immunocytochemistry

- Immunofluorescence

- Immunoprecipitation

- Flow Cytometry

Gene Info — RUNX2

Entrez GeneID[860](#)**Protein Accession#**[Q01196;Q13950;Q13761](#)**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](#)**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 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. [provided by RefSeq]

Other Designations

CBF-alpha 1|OTTHUMP00000016533|SL3-3 enhancer factor 1 alpha A subunit|SL3/AKV core-binding factor alpha A subunit|acute myeloid leukemia 3 protein|core-binding factor, runt domain, alpha subunit 1|osteoblast-specific transcription factor 2|polyomavirus e

Gene Info — RUNX1

Entrez GeneID

[861](#)

Protein Accession#

[Q01196;Q13950;Q13761](#)

Gene Name

RUNX1

Gene Alias

AML1, AML1-EVI-1, AMLCR1, CBFA2, EVI-1, PEBP2aB

Gene Description

runt-related transcription factor 1

Omim ID

[151385](#) [180300](#) [601399](#) [601626](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

Core binding factor (CBF) is a heterodimeric transcription factor that binds to the core element of many enhancers and promoters. The protein encoded by this gene represents the alpha subunit of CBF and is thought to be involved in the development of normal hematopoiesis. Chromosomal translocations involving this gene are well-documented and have been associated with several types of leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

AML1-EVI-1 fusion protein|acute myeloid leukemia 1|aml1 oncogene|core-binding factor, runt domain, alpha subunit 2

Gene Info — RUNX3

Entrez GeneID

[864](#)

Protein Accession#

[Q01196;Q13950;Q13761](#)

Gene Name

RUNX3

Gene Alias	AML2, CBFA3, FLJ34510, MGC16070, PEBP2aC
Gene Description	runt-related transcription factor 3
Omim ID	600210
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the runt domain-containing family of transcription factors. A heterodimer of this protein and a beta subunit forms a complex that binds to the core DNA sequence 5'-PYGPYGGT-3' found in a number of enhancers and promoters, and can either activate or suppress transcription. It also interacts with other transcription factors. It functions as a tumor suppressor, and the gene is frequently deleted or transcriptionally silenced in cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000003370 OTTHUMP00000003371 PEA2 alpha C PEBP2 alpha C acute myeloid leukemia gene 2 core-binding factor, runt domain, alpha subunit 3 polyomavirus enhancer-binding protein 2 alpha C subunit transcription factor AML2

Pathway

- [Acute myeloid leukemia](#)
- [Chronic myeloid leukemia](#)
- [Pathways in cancer](#)

Disease

- [Alzheimer disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Blast Crisis](#)
- [Bone Diseases](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Cleft Lip](#)

- [Cleft Palate](#)
- [Cleidocranial Dysplasia](#)
- [Colitis](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Fractures](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Immune System Diseases](#)
- [Intestinal Neoplasms](#)
- [Keloid](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Metabolic Syndrome X](#)
- [Myelodysplastic Syndromes](#)
- [Narcolepsy](#)

- [Neoplasms](#)
- [Ossification of Posterior Longitudinal Ligament](#)
- [Osteoporosis](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Psoriasis](#)
- [Schizophrenia](#)
- [Stomach Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)