

RecomAb™

RUNX recombinant monoclonal antibody, clone R06-7I9

Catalog # RAB04809 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human RUNX1/2/3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human RUNX1/2/3.
Theoretical MW (kDa)	49
Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

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

Gene Info — RUNX2

Entrez GeneID [860](#)

Protein Accession#	Q01196;Q13761;Q13950
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;Q13761;Q13950
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;Q13761;Q13950](#)

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](#)