

ARG42687 anti-RUNX3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes RUNX3
Tested Reactivity	Ms, Rat
Predict Reactivity	Hm
Tested Application	WB
Specificity	This antibody might not cross-react to Human RUNX3 protein.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RUNX3
Species	Mouse
Immunogen	Synthetic peptide corresponding to aa. 186-205 of Mouse RUNX3. (QKIEDQTKAFPDRFGDLRMR)
Conjugation	Un-conjugated
Alternate Names	Runt-related transcription factor 3; AML2; Polyomavirus enhancer-binding protein 2 alpha C subunit; CBFA3; SL3/AKV core-binding factor alpha C subunit; Oncogene AML-2; SL3-3 enhancer factor 1 alpha C subunit; PEBP2aC; Core-binding factor subunit alpha-3; CBF-alpha-3; PEA2-alpha C; PEBP2-alpha C; Acute myeloid leukemia 2 protein

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 44 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	RUNX3
Gene Full Name	runt-related transcription factor 3
Background	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'-PYGPGGT-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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]
Function	Forms the heterodimeric complex core-binding factor (CBF) with CBFβ. RUNX members modulate the transcription of their target genes through recognizing the core consensus binding sequence 5'-TGTGGT-3', or very rarely, 5'-TGCGGT-3', within their regulatory regions via their runt domain, while CBFβ is a non-DNA-binding regulatory subunit that allosterically enhances the sequence-specific DNA-binding capacity of RUNX. The heterodimers bind to the core site of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, LCK, IL3 and GM-CSF promoters (By similarity). May be involved in the control of cellular proliferation and/or differentiation. In association with ZFX3, upregulates CDKN1A promoter activity following TGF-β stimulation (PubMed:20599712). CBF complexes repress ZBTB7B transcription factor during cytotoxic (CD8+) T cell development. They bind to RUNX-binding sequence within the ZBTB7B locus acting as transcriptional silencer and allowing for cytotoxic T cell differentiation. CBF complexes binding to the transcriptional silencer is essential for recruitment of nuclear protein complexes that catalyze epigenetic modifications to establish epigenetic ZBTB7B silencing (By similarity). [UniProt]
Calculated Mw	44 kDa
PTM	Phosphorylated on tyrosine residues by SRC. Phosphorylated by LCK and FYN. [UniProt]
Cellular Localization	Nucleus. Cytoplasm. Note=The tyrosine phosphorylated form localizes to the cytoplasm. Translocates from the cytoplasm to the nucleus following TGF-β stimulation. [UniProt]

Images



ARG42687 anti-RUNX3 antibody WB image

Western blot: 50 µg of Rat liver and Mouse liver lysates stained with ARG42687 anti-RUNX3 antibody at 0.5 µg/ml dilution.