

Datasheet for ABIN7557811
RUNX3 Protein (AA 1-409) (His tag)



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Overview

Quantity:	1 mg
Target:	RUNX3
Protein Characteristics:	AA 1-409
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RUNX3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Runx3 Protein expressed in mammalian cells.
Sequence:	<p>MRIPVDPSTS RRFTPPSTAF PCGGGGGGK M GENSGALSAQ ATAGPGGRTR PEVRSMVDVL</p> <p>ADHAGELVRT DSPNFLCSVL PSHWRCNKTL PVAFKVVALG DVPDGTWTV MAGNDENYSA</p> <p>ELRNASAVMK NQVARFNDLR FVGRSGRGKS FTLTITVFTN PTQVATYHRA IKVTVDGPRE</p> <p>PRRHRQKIED QTKAFPDRFG DLRMRVTPST PSPRGSLSTT SHFSSQAQTP IQGSSDLNPF</p> <p>SDPRQFDRSF PTLQLTESR FPDPRMHYPG AMSAAFPYSA TPSGTS LGSL SVAGMPASSR</p> <p>FHHTYLPPPY PGAPQSQSGP FQANPAPYHL FYGASSGSYQ FSMAAAGGGE RSPTRMLTSC</p> <p>PSGASVSAGN LMNPSLGQAD GVEADGSHSN SPTALSTPGR MDEAVWRPY Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	RUNX3
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Alternative Name:	Runx3 (RUNX3 Products)
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Background:	<p>Runt-related transcription factor 3 (Acute myeloid leukemia 2 protein) (Core-binding factor subunit alpha-3) (CBF-alpha-3) (Oncogene AML-2) (Polyomavirus enhancer-binding protein 2 alpha C subunit) (PEA2-alpha C) (PEBP2-alpha C) (SL3-3 enhancer factor 1 alpha C subunit) (SL3/AKV core-binding factor alpha C subunit),FUNCTION: Forms the heterodimeric complex core-binding factor (CBF) with CBFB. 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 CBFB 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 (Probable). May be involved in the control of cellular proliferation and/or differentiation. In association with ZFH3, up-regulates CDKN1A promoter activity following TGF-beta stimulation (By similarity). CBF complexes repress ZBTB7B</p>
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Target Details

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 (PubMed:18258917). CBF complexes binding to the transcriptional silencer is essential for recruitment of nuclear protein complexes that catalyze epigenetic modifications to establish epigenetic ZBTB7B silencing (PubMed:23481257).
{ECO:0000250|UniProtKB:Q13761, ECO:0000269|PubMed:18258917, ECO:0000269|PubMed:23481257, ECO:0000305}.

Molecular Weight: 43.5 kDa

UniProt: [Q64131](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months