

Datasheet for ABIN7552247
ANKH Protein (AA 1-492) (His tag)



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Overview

Quantity:	1 mg
Target:	ANKH
Protein Characteristics:	AA 1-492
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKH protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ANKH Protein expressed in mammalian cells.
Sequence:	<p>MVKFPALTHY WPLIRFLVPL GITNIAIDFG EQALNRGIAA VKEDAVEMLA SYGLAYSLMK FFTGPMSDFK NVGLVFNNSK RDRTKAVLCM VVAGAIAAVF HTLIAYSDLG YYIINKLHHV DESVGSKTRR AFLYLAAFPF MDAMAWTHAG ILLKHKYSFL VGCASISDVI AQVVFVAILL HSHLECREPL LIPILSLYMG ALVRCTTLCL GYYKNIHDII PDRSGPELGG DATIRKMLSF WWPLALILAT QRISRPIVNL FVSRDLGGSS AATEAVAILT ATYPVGHMPY GWLTEIRAVY PAFDKNNPSN KLVSTSNVT AAHKKFTFV CMALSLTLCF VMFWTPNVSE KILIDIIGVD FAFAELCVVP LRIFSFFPVP VTVRAHLTGW LMTLKKTFVL APSSVLRIIV LIASLVLPY LGVHGATLGV GSLLAGFVGE STMVAIAACY VYRKQKKKME NESATEGEDS AMTDMPTTEE VTDIVEMREE NE</p> <p>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>

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, Western Blot

Grade:

custom-made

Target Details

Target:

ANKH

Alternative Name:

ANKH ([ANKH Products](#))

Background:

Mineralization regulator ANKH (ATP carrier protein ANKH) (Progressive ankylosis protein homolog) (ANK),FUNCTION: Transports adenosine triphosphate (ATP) and possibly other nucleoside triphosphates (NTPs) from cytosol to the extracellular space. Mainly regulates their levels locally in peripheral tissues while playing a minor systemic role. Prevents abnormal ectopic mineralization of the joints by regulating the extracellular levels of the calcification inhibitor inorganic pyrophosphate (PPi), which originates from the conversion of extracellular NTPs to NMPs and PPis by ENPP1 (PubMed:32639996, PubMed:35147247, PubMed:20943778). Regulates the release of the TCA cycle intermediates to the extracellular space, in particular citrate, succinate and malate. Extracellular citrate mostly present in bone tissue is required for osteogenic differentiation of mesenchymal stem cells, stabilization of hydroxyapatite structure and overall bone strength (PubMed:32639996). The transport mechanism remains to be elucidated (Probable). {ECO:0000269|PubMed:20943778, ECO:0000269|PubMed:32639996, ECO:0000269|PubMed:35147247,

Target Details

	ECO:0000305 PubMed:32639996, ECO:0000305 PubMed:35147247}.
Molecular Weight:	54.2 kDa
UniProt:	Q9HCJ1

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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