Datasheet for ABIN7558211

ERI1 Protein (AA 1-345) (His tag)

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Overview

Quantity:	1 mg
Target:	ERI1
Protein Characteristics:	AA 1-345
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERI1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Eri1 Protein expressed in mammalien cells.
Sequence:	MEDERGRERG GDAAQQKTPR PECEESRPLS VEKKQRCRLD GKETDGSKFI SSNGSDFSDP VYKEIAMTNG CINRMSKEEL RAKLSEFKLE TRGVKDVLKK RLKNYYKKQK LMLKESSAGD SYYDYICIID FEATCEEGNP AEFLHEIIEF PVVLLNTHTL EIEDTFQQYV RPEVNAQLSE FCIGLTGITQ DQVDRADAFP QVLKKVIEWM KSKELGTKYK YCILTDGSWD MSKFLSIQCR LSRLKHPAFA KKWINIRKSY GNFYKVPRSQ TKLTIMLEKL GMDYDGRPHS GLDDSKNIAR IAVRMLQDGC ELRINEKILG GQLMSVSSSL PVEGAPAPQM PHSRK **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.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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:	ERI1
Alternative Name:	Eri1 (ERI1 Products)
Background:	3'-5' exoribonuclease 1 (EC 3.1.-.-) (3'-5' exonuclease ERI1) (Eri-1 homolog) (Histone mRNA 3'-exonuclease 1),FUNCTION: RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA decay after replication. A 2' and 3'-hydroxyl groups at the last nucleotide of the histone 3'-end is required for efficient degradation of RNA substrates. Also able to degrade the 3'-overhangs of short interfering RNAs (siRNAs) in vitro, suggesting a possible role as regulator of RNA interference (RNAi). Required for binding the 5'-ACCCA-3' sequence present in stem-loop structure. Able to bind other mRNAs (By similarity). Required for 5.8S rRNA 3'-end processing. Also binds to 5.8s ribosomal RNA (PubMed:18438418). Binds with high affinity to the stem-loop structure of replication-dependent histone pre-mRNAs. In vitro, does not have sequence specificity. In vitro, has weak DNA exonuclease activity. In vitro, shows biphasic kinetics such that there is rapid hydrolysis of the last three unpaired RNA nucleotides in the 39 flanking sequence followed by a much slower cleavage through the stem that occurs over a longer incubation period in the order of hours (By similarity). {ECO:0000250|UniProtKB:Q8IV48, ECO:0000269|PubMed:18438418}.

Target Details

Molecular Weight:	39.5 kDa
UniProt:	Q7TMF2

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

