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RAP1 Protein (AA 2-393) (His tag)





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Overview

Quantity:	1 mg
Target:	RAP1 (TERF2IP)
Protein Characteristics:	AA 2-393
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAP1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

AEAMDLGKDP NGPTHSSTLF VREDGSAMSF YVRPSSAKRR LSTLILHGGG TVCRVQEPGA VLLAQPGEAL AEASGDFIST QYILDCVDRN EKLDLEAYRL GLTEQASDPK PGASTEGSTE PEPQPLTGRI AYTDAEDVAI LTYVKENARS PSSVTGNALW KAMEKSSLTQ HSWQSLKDRY LKHLRGQEHK YLLGNAPVSP SSQKLKRKAE QDPEAADSGE PQNKRAPDLP EEECVKGEIK ENGEADNKLF EEAAPEFGEA VVDESPDFEI HITMCDGDPP TPEEDSETQP DEEEEEPKVS TQEVGTAIKV IRQLMEKFNL DLSTVTQALL KNSGELEATS SFLESGRRPD GYPIWCRQDD LDLQKDDDDT KNALVKKFGA QNVARRIEFR KK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Terf2ip Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

• 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

 Purity:
 >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

 Sterility:
 0.22 μm filtered

 Endotoxin Level:
 Protein is endotoxin free.

 Grade:
 Crystallography grade

Target Details

Target: RAP1 (TERF2IP)

Alternative Name: Terf2ip (TERF2IP Products)

Target Details

Background:	Acts both as a regulator of telomere function and as a transcription regulator. Involved in the
	regulation of telomere length and protection as a component of the shelterin complex
	(telosome). In contrast to other components of the shelterin complex, it is dispensible for
	telomere capping and does not participate in the protection of telomeres against non-
	homologous end-joining (NHEJ)-mediated repair. Instead, it is required to negatively regulate
	telomere recombination and is essential for repressing homology-directed repair (HDR), which
	can affect telomere length. Does not bind DNA directly: recruited to telomeric double-stranded
	5'-TTAGGG-3' repeats via its interaction with TERF2. Independently of its function in telomeres,
	also acts as a transcription regulator: recruited to extratelomeric 5'-TTAGGG-3' sites via its
	association with TERF2 or other factors, and regulates gene expression. When cytoplasmic,
	associates with the I-kappa-B-kinase (IKK) complex and acts as a regulator of the NF-kappa-B
	signaling by promoting IKK-mediated phosphorylation of RELA/p65, leading to activate
	expression of NF-kappa-B target genes. {ECO:0000269 PubMed:20339076,
	ECO:0000269 PubMed:20622869, ECO:0000269 PubMed:20622870}.
Molecular Weight:	44.2 kDa Including tag.
UniProt:	Q91VL8
Pathways:	Cell Division Cycle, Telomere Maintenance
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 gurantee
	though.
Comment:	
	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	,,
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Restrictions:	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
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Restrictions: Handling	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. For Research Use only

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

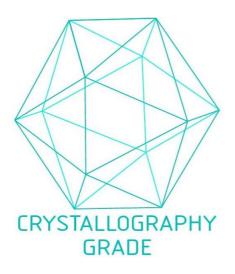


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process