antibodies

Datasheet for ABIN3135539 TGFBR2 Protein (AA 24-184) (His tag)





Overview

Quantity:	1 mg
Target:	TGFBR2
Protein Characteristics:	AA 24-184
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFBR2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	IPPHVPKSDV EMEAQKDASI HLSCNRTIHP LKHFNSDVMA SDNGGAVKLP QLCKFCDVRL
	STCDNQKSCM SNCSITAICE KPHEVCVAVW RKNDKNITLE TVCHDPKLTY HGFTLEDAAS
	PKCVMKEKKR AGETFFMCAC NMEECNDYII FSEEYTTSSP D
	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 Tgfbr2 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

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	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
Farget Details	
Farget:	TGFBR2
Alternative Name:	Tgfbr2 (TGFBR2 Products)
Background:	Transmembrane serine/threonine kinase forming with the TGF-beta type I serine/threonine
	kinase receptor, TGFBR1, the non-promiscuous receptor for the TGF-beta cytokines TGFB1,
	TGFB2 and TGFB3. Transduces the TGFB1, TGFB2 and TGFB3 signal from the cell surface to
	the cytoplasm and is thus regulating a plethora of physiological and pathological processes

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Handling Advice:

Storage Comment:

Storage:

Expiry Date:

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	including cell cycle arrest in epithelial and hematopoietic cells, control of mesenchymal cell
	proliferation and differentiation, wound healing, extracellular matrix production,
	immunosuppression and carcinogenesis. The formation of the receptor complex composed o
	2 TGFBR1 and 2 TGFBR2 Molecules symmetrically bound to the cytokine dimer results in the
	phosphorylation and the activation of TGFRB1 by the constitutively active TGFBR2. Activated
	TGFBR1 phosphorylates SMAD2 which dissociates from the receptor and interacts with
	SMAD4. The SMAD2-SMAD4 complex is subsequently translocated to the nucleus where it
	modulates the transcription of the TGF-beta-regulated genes. This constitutes the canonical
	SMAD-dependent TGF-beta signaling cascade. Also involved in non-canonical, SMAD-
	independent TGF-beta signaling pathways (By similarity). {ECO:0000250 UniProtKB:P37173}.
Molecular Weight:	19.0 kDa Including tag.
UniProt:	Q62312
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 gurante
	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
	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.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
	Associations and frequencies

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Avoid repeated freeze-thaw cycles.

Unlimited (if stored properly)

-80 °C

Store at -80°C.



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

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