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Datasheet for ABIN3132876

Integrin beta 2 Protein (ITGB2) (AA 24-702) (His tag)

Overview

Quantity:	1 mg
Target:	Integrin beta 2 (ITGB2)
Protein Characteristics:	AA 24-702
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Integrin beta 2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: QECTKYKVSS CRDCIQSGPG CSWCQKLNFT GPGEPSLRC DTRAQLLLKG CPADDIMDPR
SIANPEFDQR GQRKQLSPQK VTLYLRPGQA AAFNVTFERRA KGYPIDLYYL MDLSYSMLDD
LNNVKKLGGD LLQALNEITE SGRIGFGSFV DKTVLPFVNT HPEKLRNPCP NKEKACQPPF
AFRHVLKLT NSNQFQTEVG KQLISGNLDA PEGGLDAIMQ VAACPEEIGW RNVTRLLVFA
TDDGFHFAGD GKLGAITPN DGRCHLEDNM YKRSNEFDYP SVGQLAHKLS ESNIQPIFAV
TKKMVKTYEK LTEIIPKSAV GELSDDSSNV VQLIKNAYYK LSSRVFLDHS TLPDTLKVTY
DSFCSNGASS IGKSRGDGCDG VQINNPVTFQ VKVMASECIQ EQSFVIRALG FTDTVTVQVR
PQCECQCRDQ SREQSLCGGK GVMECGICRC ESGYIGKNCE CQTQGRSSQE LERNCRKDNS
SIVCSGLGDC ICGQCVCHTS DVPNKEIFGQ YCECDNVNCE RYNSQVCGGS DRGSCNCGKC
SCKPGYEGSA CQCQRSTTGC LNARLVECSG RGHCQCNRCI CDEGYQPPMC EDCPSCGSHC
RDNHTSCAEC LKFDKGPFEK NCSVQCAGMT LQTIPLKKKP CKERDSEGCW ITYTLQKQDG
RNIYNIHVED SLECVKGPVN

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 Itgb2 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 receipt 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:

1. 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.
 2. 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.
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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:	Integrin beta 2 (ITGB2)
Alternative Name:	Itgb2 (ITGB2 Products)
Background:	<p>Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins alpha-M/beta-2 and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1. Contributes to natural killer cell cytotoxicity (By similarity). Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (By similarity). Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation (PubMed:18587400). Integrin alpha-L/beta-2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (By similarity). {ECO:0000250 UniProtKB:P05107, ECO:0000269 PubMed:18587400, ECO:0000269 PubMed:19903482}.</p>
Molecular Weight:	75.9 kDa Including tag.
UniProt:	P11835
Pathways:	NF-kappaB Signaling , Activation of Innate immune Response , Toll-Like Receptors Cascades , Activated T Cell Proliferation

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.
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.

Handling

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)