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# Datasheet for ABIN3134739 DAB2 Protein (AA 2-766) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	DAB2
Protein Characteristics:	AA 2-766
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAB2 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

#### Product Details

Sequence:	SNEVETSTTN GQPDQQAAPK APSKKEKKKG SEKTDEYLLA RFKGDGVKYK AKLIGIDDVP
	DARGDKMSQD SMMKLKGMAA AGRSQGQHKQ RIWVNISLSG IKIIDEKTGV IEHEHPVNKI
	SFIARDVTDN RAFGYVCGGE GQHQFFAIKT GQQAEPLVVD LKDLFQVIYN VKKKEEDKKK
	VEEANKAEEN GSEALMTLDD QANKLKLGVD QMDLFGDMST PPDLNSPTES KDILLVDLNS
	EIDTNQNSLR ENPFLTNGVT SCSLPRPKPQ ASFLPENAFS ANLNFFPTPN PDPFRDDPFA
	QPDQSAPSSF DSLTSPDQKK ASLSSSSTPQ SKGPLNGDTD YFGQQFDQLS NRTGKPEAQG
	GPWPYPSSQT QQAVRTQNGV SEREQNGFHI KSSPNPFVGS PPKGLSVPNG VKQDLESSVQ
	SSAHDSIAII PPPQSTKPGR GRRTAKSSAN DLLASDIFAS EPPGQMSPTG QPAVPQSNFL
	DLFKGNAPAP VGPLVGLGTV PVTPPQAGPW TPVVYSPSTT VVPGAIISGQ PPSFRQPLVF
	GTTPAVQVWN QSPSFATPAS PPPPTVWCPT TSVAPNAWSS TSPLGNPFQS NNIFPPPTMS
	TQSSPQPMMS SVLATPPQPP PRNGPLKDIP SDAFTGLDPL GDKEVKEVKE MFKDFQLRQP
	PLVPSRKGET PPSGTSSAFS SYFNNKVGIP QEHVDHDDFD ANQLLNKINE PPKPAPRQGV

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nce without tag. Tag location is at the discretion of the manufacturer. If you have a request, please contact us. e in Germany - from design to production - by highly experienced protein experts. se Dab2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to re crystallization grade.
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se Dab2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to
e-of-the-art algorithm used for plasmid design (Gene synthesis).
otein is a made to order protein and will be made for the first time for your order. Our
in the lab will ensure that you receive a correctly folded protein.
advantage of ordering our made-to-order proteins in comparison to ordering custom
roteins from other companies is that there is no financial obligation in case the protein
be expressed or purified.
nlikely event that the protein cannot be expressed or purified we do not charge anything
companies might charge you for any performed steps in the expression process for
-made proteins, e.g. fees might apply for the expression plasmid, the first expression
nents or purification optimization).
ou order this made-to-order protein you will only pay upon receival of the correctly
protein. With no financial risk on your end you can rest assured that our experienced
experts will do everything to make sure that you receive the protein you ordered.
ncentration of our recombinant proteins is measured using the absorbance at 280nm.
ptein's absorbance will be measured in several dilutions and is measured against its
ncentration of the protein is calculated using its specific absorption coefficient. We use
asy's protparam tool to determine the absorption coefficient of each protein.
ep purification of proteins expressed in baculovirus infected SF9 insect cells:
irst purification step, the protein is purified from the cleared cell lysate using three rent His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate ions are analyzed by SDS-PAGE.
ein containing fractions of the best purification are subjected to second purification step ugh size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and tern blot.
as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
n filtered
is endotoxin free.

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#### Product Details

Grade:

Crystallography grade

## Target Details

Target:	DAB2
Alternative Name:	Dab2 (DAB2 Products)
Background:	Adapter protein that functions as clathrin-associated sorting protein (CLASP) required for
	clathrin-mediated endocytosis of selected cargo proteins. Can bind and assemble clathrin, and
	binds simultaneously to phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) and cargos
	containg non-phosphorylated NPXY internalization motifs, such as the LDL receptor, to recruit
	them to clathrin-coated pits. Can function in clathrin-mediated endocytosis independently of
	the AP-2 complex. Involved in endocytosis of integrin beta-1, this function seems to redundant
	with the AP-2 complex and seems to require DAB2 binding to endocytosis accessory EH
	domain-containing proteins such as EPS15, EPS15L1 and ITSN1. Involved in endocytosis of
	cystic fibrosis transmembrane conductance regulator/CFTR. Isoform p96 is involved in
	endocytosis of megalin/LRP2 lipoprotein receptor during embryonal development. Required for
	recycling of the TGF-beta receptor. Isoform p67 is not involved in LDL receptor endocytosis.
	Involved in CFTR trafficking to the late endosome. Involved in several receptor-mediated
	signaling pathways. Involved in TGF-beta receptor signaling and facilitates phosphorylation of
	the signal transducer SMAD2. Mediates TFG-beta-stimulated JNK activation. May inhibit the
	canoniocal Wnt/beta-catenin signaling pathway by stabilizing the beta-catenin destruction
	complex through a competing association with axin preventing its dephosphorylation through
	protein phosphatase 1 (PP1). Sequesters LRP6 towards clathrin-mediated endocytosis, leadin
	to inhibition of Wnt/beta-catenin signaling. May activate non-canonical Wnt signaling. In cell
	surface growth factor/Ras signaling pathways proposed to inhibit ERK activation by
	interrupting the binding of GRB2 to SOS1 and to inhibit SRC by preventing its activating
	phosphorylation at 'Tyr-419'. Proposed to be involved in modulation of androgen receptor (AR)
	signaling mediated by SRC activation, seems to compete with AR for interaction with SRC.
	Plays a role in the CSF-1 signal transduction pathway. Plays a role in cellular differentiation.
	Involved in cell positioning and formation of visceral endoderm (VE) during embryogenesis an
	proposed to be required in the VE to respond to Nodal signaling coming from the epiblast.
	Required for the epithelial to mesenchymal transition, a process necessary for proper
	embryonic development. May be involved in myeloid cell differentiation and can induce
	macrophage adhesion and spreading. Isoform p67 may be involved in transcriptional
	regulation. May act as a tumor suppressor. {ECO:0000269 PubMed:11247302,
	ECO:0000269 PubMed:11823414, ECO:0000269 PubMed:11927540,

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## Target Details

	ECO:0000269 PubMed:12234931, ECO:0000269 PubMed:12413896,
	EC0:0000269 PubMed:15734730, EC0:0000269 PubMed:15894542,
	ECO:0000269 PubMed:16263760, ECO:0000269 PubMed:16870701,
	ECO:0000269 PubMed:16984970, ECO:0000269 PubMed:19581931,
	ECO:0000269 PubMed:20881059}.
Molecular Weight:	83.1 kDa Including tag.
UniProt:	P98078
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid
	Hormone Receptor Signaling, Regulation of Hormone Metabolic Process, Regulation of
	Hormone Biosynthetic Process

## 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 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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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

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