Datasheet for ABIN3088274

ABHD5 Protein (AA 2-349) (His tag)

3 Images

Go to Product page

Overview

Quantity:	1 mg
Target:	ABHD5
Protein Characteristics:	AA 2-349
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABHD5 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MHHHHHHAAE EEEVDSADTG ERSGWLTGWL PTWCPTSISH LKEAEEKMLK CVPCTYKKEP VRISNGNKIW TLKFSHNISN KTPLVLLHGF GGGLGLWALN FGDLCTNRPV YAFDLLGFGR SSRPRFDSDA EEVENQFVES IEEWRCALGL DKMILLGHNL GGFLAAAYSL KYPSRVNHLI LVEPWGFPER PDLADQDRPI PVWIRALGAA LTPFNPLAGL RIAGPFGLSL VQRLRPDFKR KYSSMFEDDT VTEYIYHCNV QTPSGETAFK NMTIPYGWAK RPMLQRIGKM HPDIPVSVIF GARSCIDGNS GTSIQSLRPH SYVKTIAILG AGHYVYADQP EEFNQKVKEI CDTVD
Specificity:	N-terminal His-tag
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human ABHD5 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 made-to-order protein has already been successfully produced. Please let us know if you

Product Details

	are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount.. 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: 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.
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:	ABHD5
Alternative Name:	ABHD5 (ABHD5 Products)
Background:	Lysophosphatidic acid acyltransferase which functions in phosphatidic acid biosynthesis (PubMed:18606822). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (PubMed:16679289). Involved in keratinocyte differentiation (PubMed:18832586). Regulates lipid droplet fusion (By similarity). {ECO:0000250|UniProtKB:Q9DBL9, ECO:0000269|PubMed:16679289, ECO:0000269|PubMed:18606822, ECO:0000269|PubMed:18832586}.
Molecular Weight:	39.9 kDa Including tag.
UniProt:	Q8WTS1

Target Details

Pathways:	Lipid Metabolism

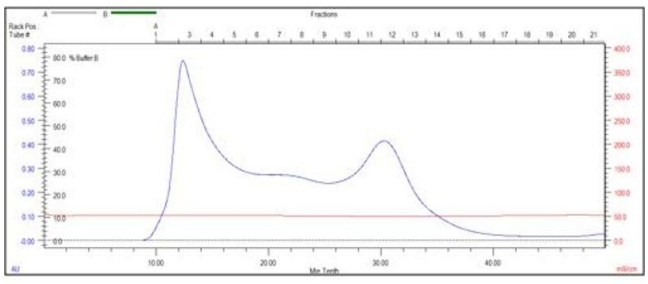
Application Details

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:	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:	20 mM Hepes, pH 7.8; 500 mM NaCl, 3,5 mM BME
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Abhydrolase Domain Containing 5 (ABHD5) sp|Q8WTS1|2-349, gel filtration, Superdex 200 fractions 11-13

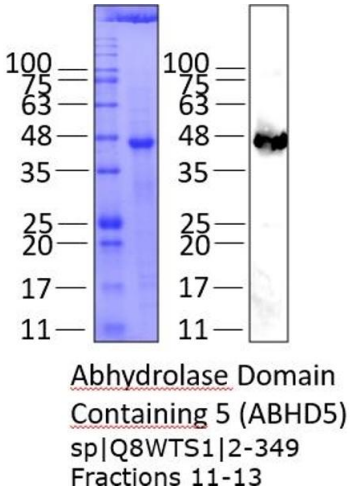
Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.

Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

Western Blotting

Image 3.



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