

Datasheet for ABIN3136825 BRDT Protein (AA 1-956) (His tag)



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Overview

Quantity:	1 mg
Target:	BRDT
Protein Characteristics:	AA 1-956
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRDT protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	<p>MSLPSRQTAI VNPPPEYIN TKKSGRLTNQ LQFLQRVVLK ALWKHGFSWP FQQPVDVAVKL</p> <p>KLPDYITIHK TPMDLNTIKK RLENKYIEKA SECIEDFNTM FSNCYLYNKT GDDIVVMAQA</p> <p>LEKLFMQKLS QMPQEEQVVG GKERIKKDIQ QKIAVSSAKE QIPSKAAENV FKRQEIPSGL</p> <p>PDISLSPLNM AQEAPPICDS QSLVQITKGV KRRADTTTPT TSIKASSES PPTLRETKPV</p> <p>NMPVKENTVK NVLPDSQQQH KVLKTVKVTE QLKHCSEILK EMLAKKHLPY AWPFFYNPVDA</p> <p>DALGLHNYVD VVKNPMDLGT IKGKMDNQEY KDAYEFAADV RLMFMNCYKY NPPDHEVVAM</p> <p>ARTLQDVFEL HFAKIPDEPI ESMHACHLTT NSAQALSRES SSEASSGDAS SEDSEDERVQ</p> <p>HLAKLQEQNL AVHQQLQVLS QVPLRKLKKK NEKSKRAPKR KKVNNRDENP RKKPKQMKQK</p> <p>EKAKINQPKK KKPLLKSEEE DNAKPMNYDE KRQLSLDINK LPGDKLGRIV HIIQSREPSL</p> <p>RNSNPDEIEI DFETLKASTL RELEKYVLAC LRKRSKPQA KKVRSKEEL HSEKKLELER</p> <p>RLLDVNNQLN CRKRQTKRPA KVEKPPPPPP PPPPPPPPE LASGSRLTDS SSSSGSGSGS</p> <p>SSSSSGSSSS SSSSGSASSS SDSSSSDSSD SEPEIFPKFT GVKQNDLPPK ENIKQIQSSV</p>
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QDITSAEAPL AQQSTAPCGA PGKHSQQMLG CQVTQHLQAT ENTASVQTQP LSGDCKRVLL
GPPVVHTSAE SLTVLEPECH APAQKDIKIK NADSWKSLGK PVKASSVLKS SDELFNQFRK
AAIEKEVKAR TQE QMRKHLE HNAKDPKVSQ ENQREPGSGL TLESLSSKVQ DKSLEEDQSE
QQPPSEAQDV SKLWLLKDRN LAREKEQERR RREAMAGTID MTLQSDIMTM FENNFD

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 Brdt 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.

Purity:

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

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	BRDT
Alternative Name:	Brdt (BRDT Products)
Background:	<p>Testis-specific chromatin protein that specifically binds histone H4 acetylated at 'Lys-5' and 'Lys-8' (H4K5ac and H4K8ac, respectively) and plays a key role in spermatogenesis. Required in late pachytene spermatocytes: plays a role in meiotic and post-meiotic cells by binding to acetylated histones at the promoter of specific meiotic and post-meiotic genes, facilitating their activation at the appropriate time. In the post-meiotic phase of spermatogenesis, binds to hyperacetylated histones and participates in their general removal from DNA. Also acts as a component of the splicing machinery in pachytene spermatocytes and round spermatids and participates in 3'-UTR truncation of specific mRNAs in post-meiotic spermatids. Required for chromocenter organization, a structure comprised of peri-centromeric heterochromatin.</p> <p>{ECO:0000269 PubMed:12861021, ECO:0000269 PubMed:19794495, ECO:0000269 PubMed:22570411, ECO:0000269 PubMed:22901802, ECO:0000269 PubMed:22922464}.</p>
Molecular Weight:	108.2 kDa Including tag.
UniProt:	Q91Y44

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 Advice:	Avoid repeated freeze-thaw cycles.
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