Datasheet for ABIN7552707

BRDT Protein (AA 1-947) (His tag)

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Overview

Quantity:	1 mg
Target:	BRDT
Protein Characteristics:	AA 1-947
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRDT protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat BRDT Protein expressed in mammalien cells.
Sequence:	MSLPSRQTAI IVNPPPPEYI NTKKNGRLTN QLQYLQKVVL KDLWKHSFSW PFQRPVDAVK LQLPDYYTII KNPMDLNTIK KRLENKYYAK ASECIEDFNT MFSNCYLYNK PGDDIVLMAQ ALEKLFMQKL SQMPQEEQVV GVKERIKKGT QQNIAVSSAK EKSSPSATEK VFKQQEIPSV FPKTSISPLN VVQGASVNSS SQTAAQVTKG VKRKADTTTP ATSAVKASSE FSPTFTEKSV ALPPIKENMP KNVLPDSQQQ YNVVKTVKVT EQLRHCSEIL KEMLAKKHFS YAWPFYNPVD VNALGLHNYY DVVKNPMDLG TIKEKMDNQE YKDAYKFAAD VRLMFMNCYK YNPPDHEVVT MARMLQDVFE THFSKIPIEP VESMPLCYIK TDITETTGRE NTNEASSEGN SSDDSEDERV KRLAKLQEQL KAVHQQLQVL SQVPFRKLNK KKEKSKKEKK KEKVNNSNEN PRKMCEQMRL KEKSKRNQPK KRKQQFIGLK SEDEDNAKPM NYDEKRQLSL NINKLPGDKL GRVVHIIQSR EPSLSNSNPD EIEIDFETLK ASTLRELEKY VSACLRKRPL KPPAKKIMMS KEELHSQKKQ ELEKRLLDVN NQLNSRKRQT KSDKTQPSKA VENVSRLSES SSSSSSSSES ESSSSDLSSS

Product Details

	DSSDSESEMF PKFTEVKPND SPSKENVKKM KNECIPPEGR TGVTQIGYCV QDTTSANTTL VHQTTPSHVM PPNHHQLAFN YQELEHLQTV KNISPLQILP PSGDSEQLSN GITVMHPSGD SDTTMLESEC QAPVQKDIKI KNADSWKSLG KPVKPSGVMK SSDELFNQFR KAAIEKEVKA RTQELIRKHL EQNTKELKAS QENQRDLGNG LTVESFSNKI QNKCSGEEQK EHQQSSEAQD KSKLWLLKDR DLARQKEQER RRREAMVGTI DMTLQSDIMT MFENNFD **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	BRDT
Alternative Name:	BRDT (BRDT Products)
Background:	Bromodomain testis-specific protein (Cancer/testis antigen 9) (CT9) (RING3-like protein),FUNCTION: 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 (PubMed:22464331, PubMed:22901802). Required in late pachytene spermatocytes: plays a role in meiotic and post-meiotic cells by binding to acetylated histones

Target Details

	at the promoter of specific meiotic and post-meiotic genes, facilitating their activation at the appropriate time (PubMed:22901802). In the post-meiotic phase of spermatogenesis, binds to hyperacetylated histones and participates in their general removal from DNA (PubMed:22901802). Also recognizes and binds a subset of butyrylated histones: able to bind histone H4 butyrylated at 'Lys-8' (H4K8ac), while it is not able to bind H4 butyrylated at 'Lys-5' (H4K5ac) (By similarity). 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 (By similarity). Required for chromocenter organization, a structure comprised of peri-centromeric heterochromatin. {ECO:0000250|UniProtKB:Q91Y44, ECO:0000269|PubMed:15647849, ECO:0000269|PubMed:22464331, ECO:0000269|PubMed:22901802, ECO:0000269|PubMed:9367677}.
Molecular Weight:	108.0 kDa
UniProt:	Q58F21

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months

