Datasheet for ABIN7565302

HDAC6 Protein (AA 1-1149) (His tag)

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Overview

Quantity:	1 mg
Target:	HDAC6
Protein Characteristics:	AA 1-1149
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HDAC6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Hdac6 Protein expressed in mammalien cells.
Sequence:	MTSTGQDSST RQRKSRHNPQ SPLQESSATL KRGGKKCAVP HSSPNLAEVK KKGKMKKLSQ PAEEDLVVGL QGLDLNPETR VPVGTGLVFD EQLNDFHCLW DDSFPESPER LHAIREQLIL EGLLGRCVSF QARFAEKEEL MLVHSLEYID LMETTQYMNE GELRVLAETY DSVYLHPNSY SCACLATGSV LRLVDALMGA EIRNGMAVIR PPGHHAQHNL MDGYCMFNHL AVAARYAQKK HRIQRVLIVD WDVHHGQGTQ FIFDQDPSVL YFSIHRYEHG RFWPHLKASN WSTIGFGQGQ GYTINVPWNQ TGMRDADYIA AFLHILLPVA SEFQPQLVLV AAGFDALHGD PKGEMAATPA GFAHLTHLLM GLAGGKLILS LEGGYNLRAL AKGVSASLHT LLGDPCPMLE SCVVPCASAQ TSIYCTLEAL EPFWEVLERS VETQEEDEVE EAVLEEEEEE GGWEATALPM DTWPLLQNRT GLVYDEKMMS HCNLWDNHHP ETPQRILRIM CHLEEVGLAA RCLILPARPA LDSELLTCHS AEYVEHLRTT EKMKTRDLHR EGANFDSIYI CPSTFACAKL ATGAACRLVE AVLSGEVLNG IAVVRPPGHH AEPNAACGFC FFNSVAVAAR HAQIIAGRAL RILIVDWDVH HGNGTQHIFE

Product Details

	DDPSVLYVSL HRYDRGTFFP MGDEGASSQV GRDAGIGFTV NVPWNGPRMG DADYLAAWHR LVLPIAYEFN PELVLISAGF DAAQGDPLGG CQVTPEGYAH LTHLLMGLAG GRIILILEGG YNLASISESM AACTHSLLGD PPPQLTLLRP PQSGALVSIS EVIQVHRKYW RSLRLMKMED KEECSSSRLV IKKLPPTASP VSAKEMTTPK GKVPEESVRK TIAALPGKES TLGQAKSKMA KAVLAQGQSS EQAAKGTTLD LATSKETVGG ATTDLWASAA APENFPNQTT SVEALGETEP TPPASHTNKQ TTGASPLQGV TAQQSLQLGV LSTLELSREA EEAHDSEEGL LGEAAGGQDM NSLMLTQGFG DFNTQDVFYA VTPLSWCPHL MAVCPIPAAG LDVSQPCKTC GTVQENWVCL TCYQVYCSRY VNAHMVCHHE ASEHPLVLSC VDLSTWCYVC QAYVHHEDLQ DVKNAAHQNK FGEDMPHSH **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:	HDAC6
Alternative Name:	Hdac6 (HDAC6 Products)
Background:	Histone deacetylase 6 (HD6) (EC 3.5.1.98) (Histone deacetylase mHDA2) (Protein deacetylase HDAC6) (EC 3.5.1.-) (Tubulin-lysine deacetylase HDAC6) (EC 3.5.1.-),FUNCTION: Responsible

Target Details

	for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) (PubMed:9891014). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events (PubMed:9891014). Histone deacetylases act via the formation of large multiprotein complexes (PubMed:9891014). In addition to histones, deacetylates other proteins, such as CTTN, tubulin and SQSTM1 (PubMed:19893491, PubMed:27737934). Plays a central role in microtubule-dependent cell motility by mediating deacetylation of tubulin (PubMed:19893491, PubMed:27737934). Required for cilia disassembly, via deacetylation of alpha-tubulin (By similarity). Promotes deacetylation of CTTN, leading to actin polymerization, promotion of autophagosome-lysosome fusion and completion of autophagy (By similarity). Promotes odontoblast differentiation following IPO7-mediated nuclear import and subsequent repression of RUNX2 expression (PubMed:35922041). In addition to its protein deacetylase activity, plays a key role in the degradation of misfolded proteins: when misfolded proteins are too abundant to be degraded by the chaperone refolding system and the ubiquitin-proteasome, mediates the transport of misfolded proteins to a cytoplasmic juxtanuclear structure called aggresome (By similarity). Probably acts as an adapter that recognizes polyubiquitinated misfolded proteins and target them to the aggresome, facilitating their clearance by autophagy (PubMed:22819792). {ECO:0000250|UniProtKB:Q9UBN7, ECO:0000269|PubMed:19893491, ECO:0000269|PubMed:22819792, ECO:0000269|PubMed:27737934, ECO:0000269|PubMed:35922041, ECO:0000269|PubMed:9891014}.
Molecular Weight:	125.8 kDa
UniProt:	Q9Z2V5
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling

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

Handling

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

