Datasheet for ABIN7562341

DAXX Protein (AA 1-739) (His tag)

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Overview

Quantity:	1 mg
Target:	DAXX
Protein Characteristics:	AA 1-739
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAXX protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Daxx Protein expressed in mammalian cells.
Sequence:	MATDDSIIVL DDDDEDEAAA QPGPSNLPPN PASTGPGPGL SQQATGLSEP RVDGGSSNSG SRKCYKLDNE KLFEEFLELC KTETSDHPEV VPFLHKLQQR AQSVFLASAE FCNILSRVLA RSRKRPAKIY VYINELCTVL KAHSIKKKLN LAPAASTTSE ASGPNPPTEP PSDLTNTENT ASEASRTRGS RRQIQRLEQL LALYVAEIRR LQEKELDLSE LDDPDSSYLQ EARLKRKLIR LFGRLCELKD CSSLTGRVIE QRIPYRGTRY PEVNRRIERL INKPGLDTFP DYGDVLRAVE KAATRHSLGL PRQQLQLLAQ DAFRDVGVRL QERRHLDLIY NFGCHLTDDY RPGVDPALSD PTLARRLREN RTLAMNRLDE VISKYAMMQD KTEEGERQKR RARLLGTAPQ PSDPPQASSE SGEGPSGMAS QECPTTSKAE TDDDDDDDDD DDEDNEESEE EEEEEEEKE ATEDEDEDLE QLQEDQGGDE EEEGGDNEGN ESPTSPSDFF HRRNSEPAEG LRTPEGQQKR GLTETPASPP GASLDPPSTD AESSGEQLLE PLLGDESPVS QLAELEMEAL PEERDISSPR KKSEDSLPTI LENGAAVVTS TSVNGRVSSH TWRDASPPSK RFRKEKKQLG SGLLGNSYIK EPMAQQDSGQ NTSVQPMPSP PLASVASVAD SSTRVDSPSH ELVTSSLCSP SPSLLLQTPQ AQSLRQCIYK

Product Details

	TSVATQCDPE EIIVLSDSD **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	DAXX
Alternative Name:	Daxx (DAXX Products)
Background:	Death domain-associated protein 6 (Daxx),FUNCTION: Transcription corepressor known to repress transcriptional potential of several sumoylated transcription factors. Down-regulates basal and activated transcription. Its transcription repressor activity is modulated by recruiting it to subnuclear compartments like the nucleolus or PML/POD/ND10 nuclear bodies through interactions with MCSR1 and PML, respectively. Seems to regulate transcription in PML/POD/ND10 nuclear bodies together with PML and may influence TNFRSF6-dependent apoptosis thereby. Inhibits transcriptional activation of PAX3 and ETS1 through direct protein-protein interactions. Modulates PAX5 activity, the function seems to involve CREBBP. Acts as

Target Details

	an adapter protein in a MDM2-DAXX-USP7 complex by regulating the RING-finger E3 ligase MDM2 ubiquitination activity. Under non-stress condition, in association with the deubiquitinating USP7, prevents MDM2 self-ubiquitination and enhances the intrinsic E3 ligase activity of MDM2 towards TP53, thereby promoting TP53 ubiquitination and subsequent proteasomal degradation. Upon DNA damage, its association with MDM2 and USP7 is disrupted, resulting in increased MDM2 autoubiquitination and consequently, MDM2 degradation, which leads to TP53 stabilization. Acts as a histone chaperone that facilitates deposition of histone H3.3. Acts as a targeting component of the chromatin remodeling complex ATRX:DAXX which has ATP-dependent DNA translocase activity and catalyzes the replication-independent deposition of histone H3.3 in pericentric DNA repeats outside S-phase and telomeres, and the in vitro remodeling of H3.3-containing nucleosomes. Does not affect the ATPase activity of ATRX but alleviates its transcription repression activity. Upon neuronal activation associates with regulatory elements of selected immediate early genes where it promotes deposition of histone H3.3 which may be linked to transcriptional induction of these genes. Required for the recruitment of histone H3.3:H4 dimers to PML-nuclear bodies (PML-NBs), the process is independent of ATRX and facilitated by ASF1A, PML-NBs are suggested to function as regulatory sites for the incorporation of newly synthesized histone H3.3 into chromatin. Proposed to mediate activation of the JNK pathway and apoptosis via MAP3K5 in response to signaling from TNFRSF6 and TGFBR2. Interaction with HSPB1/HSP27 may prevent interaction with TNFRSF6 and MAP3K5 and block DAXX-mediated apoptosis. In contrast, in lymphoid cells JNC activation and TNFRSF6-mediated apoptosis may not involve DAXX. Plays a role as a positive regulator of the heat shock transcription factor HSF1 activity during the stress protein response (By similarity). {ECO:0000250|UniProtKB:Q9UER7, ECO:0000269|PubMed:10684855, ECO:0000269|PubMed:20651253, ECO:0000269|PubMed:22500635}.
Molecular Weight:	81.5 kDa
UniProt:	O35613
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway

Application Details

Application Notes:	We expect the protein to work for functional studies. 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