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Datasheet for ABIN7563910
DYRK1A Protein (AA 1-763) (His tag)

Overview

Quantity:	1 mg
Target:	DYRK1A
Protein Characteristics:	AA 1-763
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DYRK1A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Dyrk1a Protein expressed in mammalien cells.
Sequence:	MHTGGETSAC KPSSVRLAPS FSFHAAGLQM AAQMPHSHQY SDRRQPSISD QQVSALPYSD QIQQPLTNQV MPDIVMLQRR MPQTFRDPAT APLRKLSVDL IKTYKHINEV YYAKKKRRHQ QQGGDDSSHK KERKVVNDGY DDDNYDYIVK NGEKWMDRYE IDSLIGKGSF QQVVKAYDRV EQEWVAIKII KNKKAFLNQA QIEVRLLLELM NKHDTEMKYY IVHLKRHFMM RNHLCLVFEM LSYNLYDLLR NTNFRGVSLN LTRKFAQQMC TALLFLATPE LSIHCCLKP ENILLCNPKR SAIKIVDFGS SCQLGQRIYQ YIQSRFYRSP EVLLGMPYDL AIDMWSLGC LVMHTGEPL FSGANEVDQM NKIVEVLGIP PAHILDQAPK ARKFFEKLPD GTWSLKTKD GKREYKPPGT RKLHNILGVE TGGPGGRRAG ESGHTVADYL KFKDLILRML DYDPKTRIQP YYALQHSFFK KTADEGTNTS NSVSTSPAME QSQSSGTTSS TSSSSGGSSG TSNNGRARS DPTHQHRHSGG HFAAAVQAMD CETHSPQVRQ QFPAPLGWSG TEAPTQVTVE THPVQETTFH VAPQQNALHH HHGNSSHHHH HHHHHHHHHG QQALGNRTRP RVYNSPTNSS STQDSMEVGH SHHSMTSLSS

Product Details

STTSSSTSSS STGNQGNQAY QNRPVAANTL DFGQNGAMDV NLTVYSNPRQ ETGIAGHPTY
QFSANTGPAH YMTEGHLAMR QGADREESPM TGVCVQQSPV ASS **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

DYRK1A

Alternative Name:

Dyrk1a ([DYRK1A Products](#))

Background:

Dual specificity tyrosine-phosphorylation-regulated kinase 1A (EC 2.7.11.23) (EC 2.7.12.1) (Dual specificity YAK1-related kinase) (MP86) (Protein kinase minibrain homolog) (MNBH),FUNCTION: Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activities (PubMed:18938227, PubMed:20123978). Exhibits a substrate preference for proline at position P+1 and arginine at position P-3 (By similarity). Plays an important role in double-strand breaks (DSBs) repair following DNA damage (By similarity). Mechanistically, phosphorylates RNF169 and increases its ability to block accumulation of TP53BP1 at the DSB sites thereby promoting homologous recombination repair (HRR) (By

Target Details

similarity). Also acts as a positive regulator of transcription by acting as a CTD kinase that mediates phosphorylation of the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II) POLR2A (By similarity). May play a role in a signaling pathway regulating nuclear functions of cell proliferation (By similarity). Modulates alternative splicing by phosphorylating the splice factor SRSF6 (By similarity). Has pro-survival function and negatively regulates the apoptotic process (PubMed:20167603). Promotes cell survival upon genotoxic stress through phosphorylation of SIRT1 (PubMed:20167603). This in turn inhibits p53/TP53 activity and apoptosis (PubMed:20167603). Phosphorylates SEPTIN4, SEPTIN5 and SF3B1 at 'Thr-434' (PubMed:18938227). {ECO:0000250|UniProtKB:Q13627, ECO:0000250|UniProtKB:Q63470, ECO:0000269|PubMed:18938227, ECO:0000269|PubMed:20123978, ECO:0000269|PubMed:20167603}.

Molecular Weight: 85.5 kDa

UniProt: [Q61214](#)

Pathways: [Mitotic G1-G1/S Phases](#)

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