

Datasheet for ABIN7565271

DYRK1B Protein (AA 1-629) (His tag)



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Overview

Quantity:	1 mg
Target:	DYRK1B
Protein Characteristics:	AA 1-629
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DYRK1B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Dyrc1b Protein expressed in mammalien cells.
Sequence:	<p>MAVPPGHGPF SGFPGPQEHT QVLPDVRLLP RRLPLAFRDA ASAPLRKLSV DLIKTYKHIN</p> <p>EVYYAKKKRR AQQAPPQDSS TKKEKKVLNH GYDDDNHDYI VRSGERWLER YEIDSLIGKG</p> <p>SFGQVVKAYD HQTQELVAIK IIKNKKAFLN QAQIELRLLE LMNQHDTEMK YYIVHLKRHF</p> <p>MFRNHLCLVF ELLSYNLYDL LRNTHFRGVS LNLTRKLAQQ LCTALLFLAT PELSIHCDL</p> <p>KPENILLCNP KRSAIKIVDF GSSCQLGQRI YQYIQSRFYR SPEVLLGTPY DLAIMMWSLG</p> <p>CILVEMHTGE PLFSGSNEVD QMSRIVEVLG IPPAPMLEQA PKARKYFERL PGGGWTLRRT</p> <p>KELRKDYQGP GTRRLQEVLG VQTGGPGGRR AGEPGHSPAD YLRFQDLVLR MLEYEPAARI</p> <p>SPLGALQHGF FRRTADEATN TGPAGSSAST SPAPLDTCPSS SSTASSISSS GGSSGSSNDN</p> <p>RAYRYSNRYC GPGPPITDC EMNSPQVLPS QPLRPWAGGD VPHKTHQAPI SASTLPGTGA</p> <p>QLPPLPRCLG RPPSPTSPPP PELMDVSLVG SPPDCSPPPP APAPQHPAAS ALRTRMTGGR</p> <p>PPLPPDDPA TLGPRLGLHG VPQSTAASS Sequence without tag. The proposed Purification-</p>

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:

DYRK1B

Alternative Name:

Dyrk1b ([DYRK1B Products](#))

Background:

Dual specificity tyrosine-phosphorylation-regulated kinase 1B (EC 2.7.12.1),FUNCTION: Dual-specificity kinase which possesses both serine/threonine and tyrosine kinase activities (PubMed:12633499). Plays an essential role in ribosomal DNA (rDNA) double-strand break repair and rDNA copy number maintenance. During DNA damage, mediates transcription silencing in part via phosphorylating and enforcing DSB accumulation of the histone methyltransferase EHMT2. Enhances the transcriptional activity of TCF1/HNF1A and FOXO1. Inhibits epithelial cell migration. Mediates colon carcinoma cell survival in mitogen-poor environments. Inhibits the SHH and WNT1 pathways, thereby enhancing adipogenesis. In addition, promotes expression of the gluconeogenic enzyme glucose-6-phosphatase catalytic subunit 1 (G6PC1). {ECO:0000250|UniProtKB:Q9Y463, ECO:0000269|PubMed:12633499}.

Target Details

Molecular Weight: 69.2 kDa

UniProt: [Q9Z188](#)

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