Datasheet for ABIN7565132

HEY2 Protein (AA 1-339) (His tag)

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Overview

Quantity:	1 mg
Target:	HEY2
Protein Characteristics:	AA 1-339
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HEY2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Hey2 Protein expressed in mammalien cells.
Sequence:	MKRPCEETTS ESDLDETIDV GSENNYPGHA TSSVMRSNSP TTTSQIMARK KRRGIIEKRR RDRINNSLSE LRRLVPTAFE KQGSAKLEKA EILQMTVDHL KMLQATGGKG YFDAHALATD FMSIGFRECL TEVARYLSSV EGLDPSDPLR VRLVSHLSTC ASQREAAVMT SSMAHHHHPL HPHHWAAAFH HLPTALLQPN GLHTSESTPC RLSTSSEVPS AHGSALLTAT FAHADSALRM PSGGTVAPCV PPLSTSLLSL SATVHAAAAA ATAAAHSFPL SFAGAFPMLP SNAAAAAAVA AATAISPPLS VSAASSPQQT STGTNNKPYQ PWGTEVGAF **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:

Product Details

- 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:	HEY2
Alternative Name:	Hey2 (HEY2 Products)
Background:	Hairy/enhancer-of-split related with YRPW motif protein 2 (HES-related repressor protein 2) (Hairy and enhancer of split-related protein 2) (HESR-2) (Hairy-related transcription factor 2) (HRT-2) (mHRT2) (Protein gridlock homolog),FUNCTION: Transcriptional repressor which functions as a downstream effector of Notch signaling in cardiovascular development. Specifically required for the Notch-induced endocardial epithelial to mesenchymal transition, which is itself criticial for cardiac valve and septum development. May be required in conjunction with HEY1 to specify arterial cell fate or identity. Promotes maintenance of neuronal precursor cells and glial versus neuronal fate specification. Binds preferentially to the canonical E box sequence 5'-CACGTG-3'. Represses transcription by the cardiac transcriptional activators GATA4 and GATA6 and by the neuronal bHLH factors ASCL1/MASH1 and NEUROD4/MATH3. {ECO:0000269|PubMed:10692439, ECO:0000269|PubMed:11095750, ECO:0000269|PubMed:11160397, ECO:0000269|PubMed:11486045, ECO:0000269|PubMed:12372253, ECO:0000269|PubMed:12372254, ECO:0000269|PubMed:12454287, ECO:0000269|PubMed:12947105,

Target Details

	ECO:0000269|PubMed:15107403, ECO:0000269|PubMed:15297376, ECO:0000269|PubMed:15345511, ECO:0000269|PubMed:15485867, ECO:0000269|PubMed:15680351, ECO:0000269|PubMed:16199874, ECO:0000269|PubMed:17259303, ECO:0000269|PubMed:17303760, ECO:0000269|PubMed:17332425}.
Molecular Weight:	35.9 kDa
UniProt:	Q9QUS4
Pathways:	Regulation of Muscle Cell Differentiation

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

