

Datasheet for ABIN7562759
EGR2 Protein (AA 1-470) (His tag)



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Overview

Quantity:	1 mg
Target:	EGR2
Protein Characteristics:	AA 1-470
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EGR2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Egr2 Protein expressed in mammalien cells.
Sequence:	MMTAKAVDKI PVTLSGFMHQ LPDSLYPEVED LAASSVTIFP NGELGGPFDQ MNGVAGDGM NIDMTGEKRP LDLPYPSSFA PISAPRNQTF TYMGKFSIDP QYPGASCYPE GIINIVSAGI LQGVTPPAST TASSSVTSAS PNPLATGLG VCTMSQTQPE LDHLYSPPPP PPPYSGCTGD LYQDPSAFLS PPSTTSTSSL AYQPPPSYPS PKPAMDPLI PMIPDYPGFF PSPCQRDPHG AAGPDRKPPF CPLDSLVRVP PLTPLSTIRN FTLGGPGAGV TGPASGGGE GPRLPGSGSA AVTATPYNPH HLPLRPILRP RKYPNRPSKT PVHERPYPCP AEGCDRRFSR SDELTRHIRI HTGHKPFQCR ICMRNFSRSD HLTTHIRHTH GEKPFACDYC GRKFARSDER KRHTKIHLRQ KERKSSAPSA PPSAQSSASG PGGSQAGGSL CGNSAIGGPL ASCTSRTRTP 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.

Product Details

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:

EGR2

Alternative Name:

Egr2 ([EGR2 Products](#))

Background:

E3 SUMO-protein ligase EGR2 (EC 2.3.2.-) (E3 SUMO-protein transferase ERG2) (Early growth response protein 2) (EGR-2) (Zinc finger protein Krox-20),FUNCTION: Sequence-specific DNA-binding transcription factor (PubMed:1969796, PubMed:1674431, PubMed:11823429, PubMed:31852952). Plays a role in hindbrain segmentation by regulating the expression of a subset of homeobox containing genes and in Schwann cell myelination by regulating the expression of genes involved in the formation and maintenance of myelin (PubMed:1969796, PubMed:1674431, PubMed:11823429, PubMed:31852952, PubMed:8093858). Binds to two EGR2-consensus sites EGR2A (5'-CTGTAGGAG-3') and EGR2B (5'-ATGTAGGTG-3') in the HOXB3 enhancer and promotes HOXB3 transcriptional activation (PubMed:11823429). Binds to specific DNA sites located in the promoter region of HOXA4, HOXB2 and ERBB2 (PubMed:1969796, PubMed:8093858, PubMed:17938205). Regulates hindbrain segmentation by controlling the expression of Hox genes, such as HOXA4, HOXB3 and HOXB2, and thereby specifying odd and even rhombomeres (PubMed:11823429, PubMed:1674431). Promotes the

Target Details

expression of HOXB3 in the rhombomere r5 and of HOXB3 in r3 and r5 in the hindbrain (PubMed:11823429, PubMed:8093858). Regulates myelination in the peripheral nervous system after birth, possibly by regulating the expression of myelin proteins, such as MPZ, and by promoting the differentiation of Schwann cells (PubMed:7935840, PubMed:10068633). Involved in the development of the jaw opener musculature, probably by playing a role in its innervation through trigeminal motor neurons (PubMed:11509834). May play a role in adipogenesis, possibly by regulating the expression of CEBPB (PubMed:16054051). {ECO:0000269|PubMed:10068633, ECO:0000269|PubMed:11509834, ECO:0000269|PubMed:11823429, ECO:0000269|PubMed:16054051, ECO:0000269|PubMed:1674431, ECO:0000269|PubMed:17938205, ECO:0000269|PubMed:1969796, ECO:0000269|PubMed:31852952, ECO:0000269|PubMed:7935840, ECO:0000269|PubMed:8093858}, FUNCTION: E3 SUMO-protein ligase helping SUMO1 conjugation to its coregulators NAB1 and NAB2, whose sumoylation down-regulates EGR2 transcriptional activity. {ECO:0000250|UniProtKB:P11161}.

Molecular Weight: 49.8 kDa

UniProt: [P08152](#)

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