Datasheet for ABIN7562757

EGR1 Protein (AA 1-533) (His tag)

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Overview

Quantity:	1 mg
Target:	EGR1
Protein Characteristics:	AA 1-533
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EGR1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Egr1 Protein expressed in mammalien cells.
Sequence:	MAAAKAEMQL MSPLQISDPF GSFPHSPTMD NYPKLEEMML LSNGAPQFLG AAGTPEGSGG NSSSSTSSGG GGGGGSNSGS SAFNPQGEPS EQPYEHLTTE SFSDIALNNE KAMVETSYPS QTTRLPPITY TGRFSLEPAP NSGNTLWPEP LFSLVSGLVS MTNPPTSSSS APSPAASSSS SASQSPPLSC AVPSNDSSPI YSAAPTFPTP NTDIFPEPQS QAFPGSAGTA LQYPPPAYPA TKGGFQVPMI PDYLFPQQQG DLSLGTPDQK PFQGLENRTQ QPSLTPLSTI KAFATQSGSQ DLKALNTTYQ SQLIKPSRMR KYPNRPSKTP PHERPYACPV ESCDRRFSRS DELTRHIRIH TGQKPFQCRI CMRNFSRSDH LTTHIRTHTG EKPFACDICG RKFARSDERK RHTKIHLRQK DKKADKSVVA SPAASSLSSY PSPVATSYPS PATTSFPSPV PTSYSSPGSS TYPSPAHSGF PSPSVATTFA SVPPAFPTQV SSFPSAGVSS SFSTSTGLSD MTATFSPRTI EIC **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**

Product Details

	special request, please contact us.
Characteristics:	Key Benefits: • 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:	EGR1
Alternative Name:	Egr1 (EGR1 Products)
Background:	Early growth response protein 1 (EGR-1) (Nerve growth factor-induced protein A) (NGFI-A) (Transcription factor Zif268) (Zinc finger protein Krox-24),FUNCTION: Transcriptional regulator (PubMed:8336701, PubMed:8703054, PubMed:15958557). Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3'(EGR-site) in the promoter region of target genes (PubMed:8703054, PubMed:15958557, PubMed:2028256, PubMed:8939742). Binds double-stranded target DNA, irrespective of the cytosine methylation status (By similarity). Regulates the transcription of numerous target genes, and thereby plays an important role in regulating the response to growth factors, DNA damage, and ischemia (PubMed:11100120, PubMed:15958557). Plays a role in the regulation of cell survival, proliferation and cell death (PubMed:15265859, PubMed:15958557). Activates expression of p53/TP53 and TGFB1, and thereby helps prevent tumor formation (PubMed:15958557). Required for normal progress through mitosis and normal proliferation of hepatocytes after partial hepatectomy

Target Details

	(PubMed:15265859). Mediates responses to ischemia and hypoxia, regulates the expression of proteins such as IL1B and CXCL2 that are involved in inflammatory processes and development of tissue damage after ischemia (PubMed:11100120). Regulates biosynthesis of luteinizing hormone (LHB) in the pituitary (PubMed:8703054). Regulates the amplitude of the expression rhythms of clock genes: BMAL1, PER2 and NR1D1 in the liver via the activation of PER1 (clock repressor) transcription (PubMed:26471974). Regulates the rhythmic expression of core-clock gene BMAL1 in the suprachiasmatic nucleus (SCN) (PubMed:29138967). {ECO:0000250|UniProtKB:P18146, ECO:0000269|PubMed:11100120, ECO:0000269|PubMed:15265859, ECO:0000269|PubMed:15958557, ECO:0000269|PubMed:2028256, ECO:0000269|PubMed:26471974, ECO:0000269|PubMed:29138967, ECO:0000269|PubMed:8336701, ECO:0000269|PubMed:8703054, ECO:0000269|PubMed:8939742, ECO:0000305}.
Molecular Weight:	56.6 kDa
UniProt:	P08046
Pathways:	Regulation of Carbohydrate Metabolic Process, Regulation of long-term Neuronal Synaptic Plasticity

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