

Datasheet for ABIN7552699
BCL6 Protein (AA 1-706) (His tag)



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Overview

Quantity:	1 mg
Target:	BCL6
Protein Characteristics:	AA 1-706
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BCL6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat BCL6 Protein expressed in mammalien cells.
Sequence:	<p> MASPADSCIQ FTRHASDVLL NLNRLRSRDI LTDVVIVVSR EQFRAHKTVL MACSGLFYSI FTDQLKCNLS VINLDPEINP EGFCILLDFM YTSRLNLREG NIMAVMATAM YLQMEHVVDI CRKFIKASEA EMVSAIKPPR EEFLNSRMLM PQDIMAYRGR EVVENNLPLR SAPGCESRAF APSLYSGLST PPASYSMYSH LPVSSLLFSD EEFRDVRMPV ANPFPKERAL PCDSARPVPG EYSRPTLEVS PNVCHSNIYS PKETIPEEAR SDMHYSVAEG LKPAAPSARN APYFPCDKAS KEEERPSSD EIALHFEPPN APLNRKGLVS PQSPQKSDCQ PNSPTESCSS KNACILQASG SPPAKSPTDP KACNWKKYKF IVLNSLNQNA KPEGPEQAEI GRLSPRAYTA PPACQPPMEP ENLDLQSPK LSASGEDSTI PQASRLNNIV NRSMTGSPRS SESHSPLYM HPPKCTSCGS QSPQHAEMCL HTAGPTFPEE MGETQSEYSD SSCENGAFFC NECDRCFSEE ASLKRHTLQT HSDKPYKCDR CQASFRYKGN LASHKTVHTG EKPYRCNICG AQFNRPANLK THTRIHSGEK PYKCETCGAR FVQVAHLRAH VLIHTGEKPY PCEICGTRFR HLQTLKSHLR IHTGEKPYHC </p>

Product Details

EKC�LHFRHK SQLRLHLRQK HGAITNTKVQ YRVSATDLPP ELPKAC **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:

BCL6

Alternative Name:

BCL6 ([BCL6 Products](#))

Background:

B-cell lymphoma 6 protein (BCL-6) (B-cell lymphoma 5 protein) (BCL-5) (Protein LAZ-3) (Zinc finger and BTB domain-containing protein 27) (Zinc finger protein 51),FUNCTION: Transcriptional repressor mainly required for germinal center (GC) formation and antibody affinity maturation which has different mechanisms of action specific to the lineage and biological functions. Forms complexes with different corepressors and histone deacetylases to repress the transcriptional expression of different subsets of target genes. Represses its target genes by binding directly to the DNA sequence 5'-TTCCTAGAA-3' (BCL6-binding site) or indirectly by repressing the transcriptional activity of transcription factors. In GC B-cells, represses genes that function in differentiation, inflammation, apoptosis and cell cycle control,

Target Details

also autoregulates its transcriptional expression and up-regulates, indirectly, the expression of some genes important for GC reactions, such as AICDA, through the repression of microRNAs expression, like miR155. An important function is to allow GC B-cells to proliferate very rapidly in response to T-cell dependent antigens and tolerate the physiological DNA breaks required for immunoglobulin class switch recombination and somatic hypermutation without inducing a p53/TP53-dependent apoptotic response. In follicular helper CD4(+) T-cells (T(FH) cells), promotes the expression of T(FH)-related genes but inhibits the differentiation of T(H)1, T(H)2 and T(H)17 cells. Also required for the establishment and maintenance of immunological memory for both T- and B-cells. Suppresses macrophage proliferation through competition with STAT5 for STAT-binding motifs binding on certain target genes, such as CCL2 and CCND2. In response to genotoxic stress, controls cell cycle arrest in GC B-cells in both p53/TP53-dependent and -independent manners. Besides, also controls neurogenesis through the alteration of the composition of NOTCH-dependent transcriptional complexes at selective NOTCH targets, such as HES5, including the recruitment of the deacetylase SIRT1 and resulting in an epigenetic silencing leading to neuronal differentiation. {ECO:0000269|PubMed:10981963, ECO:0000269|PubMed:12402037, ECO:0000269|PubMed:12414651, ECO:0000269|PubMed:12504096, ECO:0000269|PubMed:15454082, ECO:0000269|PubMed:15577913, ECO:0000269|PubMed:16142238, ECO:0000269|PubMed:17828269, ECO:0000269|PubMed:18212045, ECO:0000269|PubMed:18280243, ECO:0000269|PubMed:22113614, ECO:0000269|PubMed:23166356, ECO:0000269|PubMed:23911289, ECO:0000269|PubMed:9649500}.

Molecular Weight: 78.8 kDa

UniProt: [P41182](#)

Pathways: [Chromatin Binding](#), [Regulation of Leukocyte Mediated Immunity](#), [Production of Molecular Mediator of Immune Response](#), [Protein targeting to Nucleus](#)

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