

Recombinant Human Kruppel-like factor 12, His-tagged

Cat. No. KLF12-602H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KLF12, 1-402aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-402 a.a.
Description	KLF12, as known as Krueppel-like factor 12, is a member of the Kruppel-like zinc finger protein family and can repress expression of the AP-2 alpha gene by binding to a specific site in the AP-2 alpha gene promoter. Activator protein-2 alpha (AP-2 alpha) is a developmentally-regulated transcription factor and important regulator of gene expression during vertebrate development and carcinogenesis. Repression by the encoded protein requires binding with a corepressor, CtBP1. Two transcript variants encoding different isoforms have been found for this gene.cers. Recombinant human KLF12 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	46.6 kDa(425aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNIHMKR KTIKNINTFE NRMLMLDGMP AVRVKTELLE SEQGSPNVHN YPDMEAVPLL LNNVKGEPPE DSLSVDHFQT QTEPVDLSIN KARTSPTAVS SSPVSMTASA SSPSSTSTSS SSSSRLASSP TVITSVSSAS SSSTVLTPGP LVASASGVGG QQFLHIIHPV PPSSPMNLQS

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NKLSHVHRIP VVVQSVPVVY TAVRSPGNVN NTIVVPLLED GRGHGKAQMD
 PRGLSPRQSK SDSDDDDLPN VTLDVNETG STALSIARAV QEVHPSPVSR
 VRGNRMNNQK FPCSISPFSE ESTRRQRRSE SPDSRKRRRH RCDFEGCNKV
 YTKSSHLKAH RRTHTGEKPY KCTWEGCTWK FARSEDLTRH YRKHTGVKPF
 KCADCDRSFS RSDHLALHRR RHMLV

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [KLF12 Kruppel-like factor 12 \[Homo sapiens \]](#)

Official Symbol KLF12

Synonyms KLF12; Kruppel-like factor 12; Krueppel-like factor 12; AP 2 repressor; AP 2rep; AP 2rep transcription factor; AP2REP; HSPC122; KLF12 zinc finger transcriptional repressor; AP-2 repressor; AP-2rep transcription factor; transcriptional repressor AP-2rep; AP-2rep;

Gene ID [11278](#)

mRNA Refseq [NM_007249](#)

Protein Refseq [NP_009180](#)

MIM [607531](#)

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UniProt ID	Q9Y4X4
Chromosome Location	13q22
Function	DNA binding; metal ion binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity; zinc ion binding;

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