

Recombinant Human Y box binding protein 1, His-tagged

Cat. No. YBX1-636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	YBX1, 1-324aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-324 a.a.
Description	YBX1, also known as Y box binding protein 1, associates with the selenocysteine insertion sequence and functions in mammalian selenoprotein translation. This protein is a potential drug target in cancer therapy. It helps the replication of adenovirus type 5, a commonly used vector in gene therapy. Thus, YBX1 can cause an "oncolytic" effect in YBX1 positive cancer cells treated with adenoviruses. Recombinant human YBX1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Form	Liquid. Phosphate Buffered Saline (pH7.4) containing 20% glycerol
Molecular Mass	38.3 kDa (347aa) confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSSEAE TQQPPAAPPAA PALSAAADTKP GTTGSGAGSG GPGGLTSAAP AGGDKKVIAT KVLGTVKWFN VRNGYGFNR NDTKEDVVFH QTAIKKNNPR KYLRVSGDGE TVEFDVVEGE KGAEAAANVTG PGGVPVQGSK YAADRNYHRR YPRRRGPPRN YQQNYQNSSES GEKNEGSESA

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PEGQAQQRRP YRRRRFPPYY MRRPYGRRPQ YSNPPVQGEV MEGADNQGAG
EQGRPVRQNM YRGYRPRFRR GPPRQRQPRE DGNEEDKENQ GDETQGGQPP
QRRYRRNFNY RRRRPENPKP QDGKETKAAD PPAENSSAPE AEQGGAE

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 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name YBX1 Y box binding protein 1 [Homo sapiens]

Official Symbol YBX1

Synonyms YBX1; Y box binding protein 1; NSEP1, nuclease sensitive element binding protein 1; nuclease-sensitive element-binding protein 1; BP 8; CSDA2; CSDB; DBPB; MDR NF1; NSEP 1; YB 1; YB1; CBF-A; EFI-A; DNA-binding protein B; Y-box-binding protein 1; Y-box transcription factor; enhancer factor I subunit A; nuclease sensitive element binding protein 1; CCAAT-binding transcription factor I subunit A; major histocompatibility complex, class II, Y box-binding protein I; BP-8; YB-1; NSEP1; NSEP-1; MDR-NF1; MGC104858; MGC110976; MGC117250;

Gene ID 4904

mRNA Refseq NM_004559

Protein Refseq NP_004550

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MIM	154030
UniProt ID	P67809
Chromosome Location	1p34
Pathway	Gene Expression, organism-specific biosystem; IL-2 Signaling Pathway, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem; Signaling events mediated by PTP1B, organism-specific biosystem; mRNA Splicing, organism-specific biosystem; mRNA Splicing - Major Pathway, organism-specific biosystem;
Function	DNA binding; DNA binding; RNA binding; RNA binding; double-stranded DNA binding; protein binding; sequence-specific DNA binding transcription factor activity; single-stranded DNA binding;

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