

Recombinant Human YBX1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. YBX1-4852H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	YBX1 MS Standard C13 and N15-labeled recombinant protein (NP_004550) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a highly conserved cold shock domain protein that has broad nucleic acid binding properties. The encoded protein functions as both a DNA and RNA binding protein and has been implicated in numerous cellular processes including regulation of transcription and translation, pre-mRNA splicing, DNA reparation and mRNA packaging. This protein is also a component of messenger ribonucleoprotein (mRNP) complexes and may have a role in microRNA processing. This protein can be secreted through non-classical pathways and functions as an extracellular mitogen. Aberrant expression of the gene is associated with cancer proliferation in numerous tissues. This gene may be a prognostic marker for poor outcome and drug resistance in certain cancers. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on multiple chromosomes.
Molecular Mass	35.9 kDa
AA Sequence	MSSEAETQQPPAAPPAAPALSAADTKPGTTGSGAGSGGPGGLTSAAPAGGDKKVI ATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRVGDGETVEF

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DVVEGEKGAEAAANVTGPGGVPVQGSKYAADRNHYRRYPRRRGPPRNYQQNYQNS
 ESGEKNEGSESAPEGQAQRRPYRRRRFPYYMRRPYGRRPQYSNPPVQGEVM
 EGADNQGAGEQGRPVRQNMYRGYRPRFRRGPPRQRQRPREDGNEEDKENQGDET
 QGQPPQRRYRRNFYRRRRPENPKPQDGKETKAADPPAENSSAPEAEQGAET
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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;

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Gene ID	4904
mRNA Refseq	NM_004559
Protein Refseq	NP_004550
MIM	154030
UniProt ID	P67809
SDS-PAGE	