

## Product datasheet for **TP309835L**

### YB1 (YBX1) (NM\_004559) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Homo sapiens Y box binding protein 1 (YBX1), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA** >RC209835 protein sequence

**Clone or AA** Red=Cloning site Green=Tags(s)

**Sequence:**

MSSEAETQPPAAPPAAPALSAADTKPGTTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRN  
GYGFINRNDTKEDVVFVHQTAIKNNPRKYLRVGDGETVEFDVVEGEKGAEANVTGPGGVPVQGSKYAA  
DRNHYYRRYPRRRGPPRNYQQNYQNSESGEKNEGSESAPEGQAQRRPYRRRRFPPYYMRRPYGRRPQYSN  
PPVQGEVMEGADNQGAGEQGRPVQRNMYRGYRPRFRRGPPRQRQPREDGNEEDKENQGDDETQGQPPQRR  
YRRNFNYRRRRPENPKPQDGKETKAADPPAENSSAPEAEQGGAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 35.7 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_004550](#)

**Locus ID:** 4904



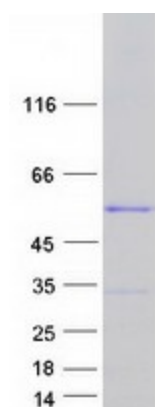
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UniProt ID: [P67809](#)  
RefSeq Size: 1561  
Cytogenetics: 1p34.2  
RefSeq ORF: 972  
Synonyms: BP-8; CBF-A; CSDA2; CSDB; DBPB; EFI-A; MDR-NF1; NSEP-1; NSEP1; YB-1; YB1

**Summary:** 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 repair 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. [provided by RefSeq, Sep 2015]

**Protein Families:** ES Cell Differentiation/IPS, Transcription Factors

### Product images:



Coomassie blue staining of purified YBX1 protein (Cat# [TP309835]). The protein was produced from HEK293T cells transfected with YBX1 cDNA clone (Cat# [RC209835]) using MegaTran 2.0 (Cat# [TT210002]).