

Recombinant Full Length Human YBX1 Protein, Flag tagged, Biotinylated

Cat. No. YBX1-3540HFLB **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This YBX1 protein is a recombinant full-length human protein expressed in HEK293 cells with Flag tag and biotinylated. YBX1 is a DNA/RNA-binding protein that functions as a transcription and translation regulator. It is involved in mRNA splicing, stability, and export, and plays a role in cell proliferation, differentiation, and stress response.
Species	Human
Source	HEK293
ProteinLength	1-324 aa (full length)
Conjugation/Label	Biotin
Description	Y-box binding protein 1 (YBX1), also known as YB-1, is a highly conserved nucleic acid-binding protein that belongs to the cold shock domain protein family. It functions as a transcription factor regulating the expression of genes involved in cell proliferation, drug resistance, and apoptosis. YBX1 is overexpressed in many cancers and is associated with poor prognosis. It shuttles between the nucleus and cytoplasm, participating in mRNA splicing, stabilization, and translation initiation. YBX1 also interacts with microRNAs and is implicated in epithelial-mesenchymal transition (EMT).
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	39 kDa (calculated)
AASequence	MADPNQDFKKLVLGKPGGTSATAWAQPKRDNPNNRRPFGGSSPSRRGYGDSRPAY GPPAYGSGGPPPTGYGGPPAGGYGPGGYGNQNNQYGGPAGGFGGGSRAQAYG PGGFGGQQPFGGQQPGFQQGPGGYRQQPQYGNYYGQQGGFGAQPKYGGPKYG DGPFGGSRGSPSGGYGGRGYGGTPGSGPYGQQGGYGGQPGGFGNQPKYGGPQ YGDQPYGGQQSGPYGGRGYGGNPGSQPYGQQGGFGGTPGGFGNQKYGNPKY GDAPYGGSSSSYSRPQNQYGGQQRGFGGTPGAFGNQKYGDPTQGPPQGYGS SSYPQNQYGGAPPGGYGQRGYSGGAPGFQGPQQSGGQQPGGYGGDPQYGGG SGGYGNQPKYGGPKYGGAPYGGQQRGAFGAPRQYSPAGGYGGRGYGGPPGYG QQGGFGGMPGGF
Purity	>90% by SDS-PAGE
Storage	Store at -20 to -80C. Aliquot for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.28 mg/ml (BCA assay)
Storage Buffer	Sterile PBS, pH 7.4
Labeling Efficiency	0.25 by HABA
GENE INFORMATION	
Gene Name	YBX1
Official Symbol	YBX1
Synonyms	YB1; BP-8; CSDB; DBPB; YB-1; CBF-A; CSDA2; EFI-A; NSEP1; NSEP-1; MDR-NF1
Gene ID	4904

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mRNA Refseq [NM_004559.5](#)

Protein Refseq [NP_004550.2](#)

MIM [154030](#)

UniProt ID [P67809](#)

**SDS-PAGE analysis
of YBX1-3540HFLB**



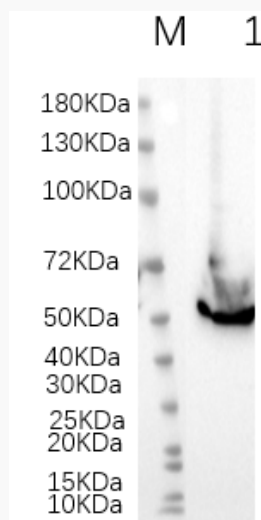
1 ug/lane, reducing conditions, 4%-20% SDS-PAGE, Coomassie Blue staining

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**Western Blot
analysis of YBX1-
3540HFLB**



Western Blot using Anti-His Mouse Monoclonal antibody

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