

Product Name: YB1 (15K16) Rabbit Monoclonal Antibody
Catalog #: AMRe19986

Summary

Production Name	YB1 (15K16) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	YBX1
Alternative Names	CBF-A; DBPB; NSEP1; p50; YB1; YBX1; DNA binding protein B;
Gene ID	4904.0
SwissProt ID	P67809 .A synthetic peptide of human YB1

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	36kDa

Background

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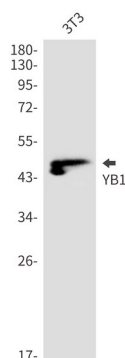
Mediates pre-mRNA alternative splicing regulation. Binds to splice sites in pre-mRNA and regulates splice site selection. Binds and stabilizes cytoplasmic mRNA. Contributes to the regulation of translation by modulating the interaction between the mRNA and eukaryotic initiation factors (By similarity). Regulates the transcription of numerous genes. DNA- and RNA-binding protein involved in various processes, such as translational repression, RNA stabilization, mRNA splicing, DNA repair and transcription regulation (PubMed:[>8188694, PubMed:\[>10817758, PubMed:\\[>11698476, PubMed:\\\[>14718551, PubMed:\\\\[>18809583, PubMed:\\\\\[>31358969\\\\\\). Predominantly acts as a RNA-binding protein: binds preferentially to the 5'-\\\\\\[CU\\\\\\]CUGCG-3' RNA motif and specifically recognizes mRNA transcripts modified by C5-methylcytosine \\\\\\(m5C\\\\\\) \\\\\\(PubMed:\\\\\\[>19561594, PubMed:\\\\\\\[>31358969\\\\\\\\). Promotes mRNA stabilization: acts by binding to m5C- containing mRNAs and recruiting the mRNA stability maintainer ELAVL1, thereby preventing mRNA decay \\\\\\\\(PubMed:\\\\\\\\[>10817758, PubMed:\\\\\\\\\[>11698476, PubMed:\\\\\\\\\\[>31358969\\\\\\\\\\\). Component of the CRD-mediated complex that promotes MYC mRNA stability \\\\\\\\\\\(PubMed:\\\\\\\\\\\[>19029303\\\\\\\\\\\\). Contributes to the regulation of translation by modulating the interaction between the mRNA and eukaryotic initiation factors \\\\\\\\\\\\(By similarity\\\\\\\\\\\\). Plays a key role in RNA composition of extracellular exosomes by defining the sorting of small non-coding RNAs, such as tRNAs, Y RNAs, Vault RNAs and miRNAs \\\\\\\\\\\\(PubMed:\\\\\\\\\\\\[>27559612, PubMed:\\\\\\\\\\\\\[>29073095\\\\\\\\\\\\\\). Probably sorts RNAs in exosomes by recognizing and binding C5-methylcytosine \\\\\\\\\\\\\\(m5C\\\\\\\\\\\\\\)-containing RNAs \\\\\\\\\\\\\\(PubMed:\\\\\\\\\\\\\\[>28341602, PubMed:\\\\\\\\\\\\\\\[>29073095\\\\\\\\\\\\\\\\). Acts as a key effector of epidermal progenitors by preventing epidermal progenitor senescence: acts by regulating the translation of a senescence-associated subset of cytokine mRNAs, possibly by binding to m5C-containing mRNAs \\\\\\\\\\\\\\\\(PubMed:\\\\\\\\\\\\\\\\[>29712925\\\\\\\\\\\\\\\\\). Also involved in pre-mRNA alternative splicing regulation: binds to splice sites in pre-mRNA and regulates splice site selection \\\\\\\\\\\\\\\\\(PubMed:\\\\\\\\\\\\\\\\\[>12604611\\\\\\\\\\\\\\\\\\). Also able to bind DNA: regulates transcription of the multidrug resistance gene MDR1 is enhanced in presence of the APEX1 acetylated form at 'Lys-6' and 'Lys-7' \\\\\\\\\\\\\\\\\\(PubMed:\\\\\\\\\\\\\\\\\\[>18809583\\\\\\\\\\\\\\\\\\\). Binds to promoters that contain a Y-box \\\\\\\\\\\\\\\\\\\(5'- CTGATTGGCCAA-3'\\\\\\\\\\\\\\\\\\\), such as MDR1 and HLA class II genes \\\\\\\\\\\\\\\\\\\(PubMed:\\\\\\\\\\\\\\\\\\\[>18809583\\\\\\\\\\\\\\\\\\\\).\\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/18809583\\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/18809583\\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/12604611\\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/29712925\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\]\\\\\\\\\\\\\\\(http://www.uniprot.org/citations/29073095\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\]\\\\\\\\\\\\\\(http://www.uniprot.org/citations/28341602\\\\\\\\\\\\\\)\\\\\\\\\\\\\]\\\\\\\\\\\\\(http://www.uniprot.org/citations/29073095\\\\\\\\\\\\\)\\\\\\\\\\\\]\\\\\\\\\\\\(http://www.uniprot.org/citations/27559612\\\\\\\\\\\\)\\\\\\\\\\\]\\\\\\\\\\\(http://www.uniprot.org/citations/19029303\\\\\\\\\\\)\\\\\\\\\\]\\\\\\\\\\(http://www.uniprot.org/citations/31358969\\\\\\\\\\)\\\\\\\\\]\\\\\\\\\(http://www.uniprot.org/citations/11698476\\\\\\\\\)\\\\\\\\]\\\\\\\\(http://www.uniprot.org/citations/10817758\\\\\\\\)\\\\\\\]\\\\\\\(http://www.uniprot.org/citations/31358969\\\\\\\)\\\\\\]\\\\\\(http://www.uniprot.org/citations/19561594\\\\\\)\\\\\]\\\\\(http://www.uniprot.org/citations/31358969\\\\\)\\\\]\\\\(http://www.uniprot.org/citations/18809583\\\\)\\\]\\\(http://www.uniprot.org/citations/14718551\\\)\\]\\(http://www.uniprot.org/citations/11698476\\)\]\(http://www.uniprot.org/citations/10817758\)](http://www.uniprot.org/citations/8188694)

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[8188694](http://www.uniprot.org/citations/8188694), PubMed: [18809583](http://www.uniprot.org/citations/18809583)). Promotes separation of DNA strands that contain mismatches or are modified by cisplatin (PubMed: [14718551](http://www.uniprot.org/citations/14718551)). Has endonucleolytic activity and can introduce nicks or breaks into double-stranded DNA, suggesting a role in DNA repair (PubMed: [14718551](http://www.uniprot.org/citations/14718551)). The secreted form acts as an extracellular mitogen and stimulates cell migration and proliferation (PubMed: [19483673](http://www.uniprot.org/citations/19483673)).

Research Area

Image Data



Western blot detection of YB1 in HeLa, C2C12 cell lysates using YB1 antibody (1:1000 diluted).

Note

For research use only.