

# YB-1 (phospho Ser102) rabbit pAb

Cat No.:ES6417

For research use only

## Overview

Product Name	YB-1 (phospho Ser102) rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human YB1 around the phosphorylation site of Ser102. AA range:68-117
Specificity	Phospho-YB-1 (S102) Polyclonal Antibody detects endogenous levels of YB-1 protein only when phosphorylated at S102.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Nuclease-sensitive element-binding protein 1
Gene Name	YBX1
Cellular localization	Cytoplasm . Nucleus . Cytoplasmic granule . Secreted . Secreted, extracellular exosome . Predominantly cytoplasmic in proliferating cells (PubMed:12604611). Cytotoxic stress and DNA damage enhance translocation to the nucleus (PubMed:14718551). Localized
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	36kD
Human Gene ID	4904
Human Swiss-Prot Number	P67809
Alternative Names	YBX1; NSEP1; YB1; Nuclease-sensitive element-binding protein 1; CCAAT-binding

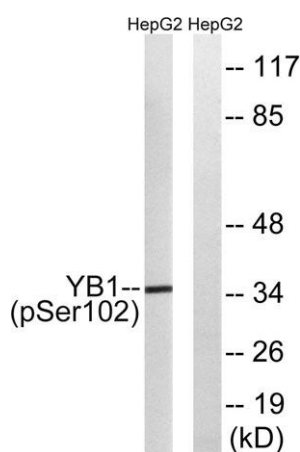




## Background

transcription factor I subunit A; CBF-A; DNA-binding protein B; DBPB; Enhancer factor I subunit A; EFl-A; Y-box transcription factor; Y-box-binding protein 1; YB-

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. [provided by RefSeq, Sep 2015],



Western blot analysis of lysates from HepG2 cells treated with PMA 125ng/ml 15', using YB1 (Phospho-Ser102) Antibody. The lane on the right is blocked with the phospho peptide.

