

Datasheet for ABIN3043966  
**anti-YBX1 antibody (C-Term)**

## 6 Images

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## Overview

Quantity:	100 µg
Target:	YBX1
Binding Specificity:	AA 293-320, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Nuclease-sensitive element-binding protein 1(YBX1) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human YB1 (293-320aa ENPKPQDGKETKAADPPAENSSAPEAEQ), identical to the related mouse and rat sequences.
Sequence:	ENPKPQDGKE TKAADPPAEN SSAPEAEQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Nuclease-sensitive element-binding protein 1(YBX1) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat. Gene Name: Y box binding protein 1 Protein Name: Nuclease-sensitive element-binding protein 1

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: YBX1

Alternative Name: YBX1 ([YBX1 Products](#))

Background: YBX1(Y box binding protein 1), commonly referred to as "YB-1" by researchers, is a human protein. YB1 binding has an absolute requirement for the CCAAT box and relative specificity for the Y box. It has a molecular mass of 35,414 and contains 18 % basic residues and putative nuclear localization signals. The YBX1 gene is mapped on 1p34.2. Ybx1 was highly expressed in mouse erythroid myeloid lymphoid clone-1 (EML), a hematopoietic precursor cell line, but that it was downregulated in myeloid progenitors and in Gmcsf-treated EML cells during myeloid differentiation. Ybx1 was expressed at high levels in myeloid leukemic cells at different developmental stages. Knockdown of YBX1 in a human leukemic cell line inhibited proliferation ability, induced apoptosis, and induced megakaryocytic differentiation in response to arsenic trioxide treatment. YBX1 is downregulated during myeloid differentiation and aberrant YBX1 expression in leukemic cells may contribute to leukemia development by blocking differentiation.

Synonyms: BP 8 antibody|CBF-A antibody|CCAAT binding transcription factor I subunit A antibody|CCAAT-binding transcription factor I subunit A antibody|CSDA2 antibody|CSDB antibody|DBPB antibody|DNA binding protein B antibody|DNA-binding protein B antibody|EFI-A antibody| Enhancer factor I subunit A antibody|MDR NF1 antibody|MGC104858 antibody|MGC110976 antibody|MGC117250 antibody|NSEP 1 antibody|NSEP1 antibody|Nuclease sensitive element binding protein 1 antibody|Nuclease-sensitive element-binding protein 1 antibody|p50 antibody|Q15905 antibody|Y-box binding protein 1 antibody|Y-box transcription factor antibody|Y-box-binding protein 1 antibody|YB 1 antibody|YB-1 antibody|YBOX1\_HUMAN antibody| YBX 1 antibody|YBX1 antibody

Gene ID: 4904

UniProt: [P67809](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for

## Application Details

YB1 is approximately 0.1 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).
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Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
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Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
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Concentration:	500 µg/mL
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Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
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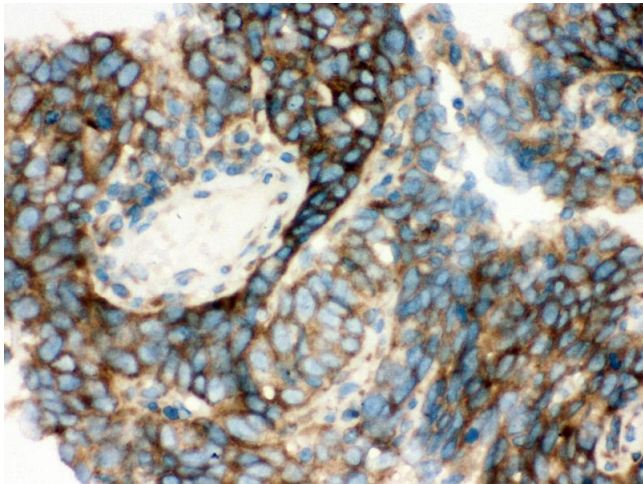
Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Handling Advice:	Avoid repeated freezing and thawing.
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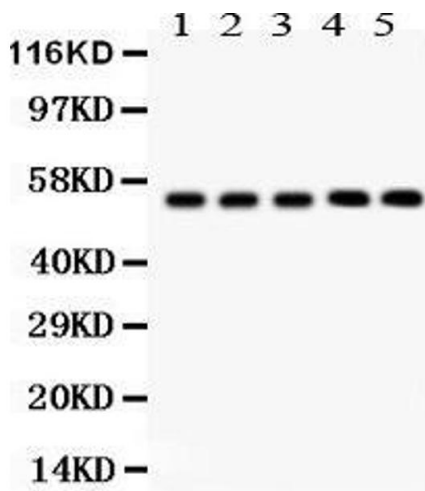
Storage:	4 °C/-20 °C
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Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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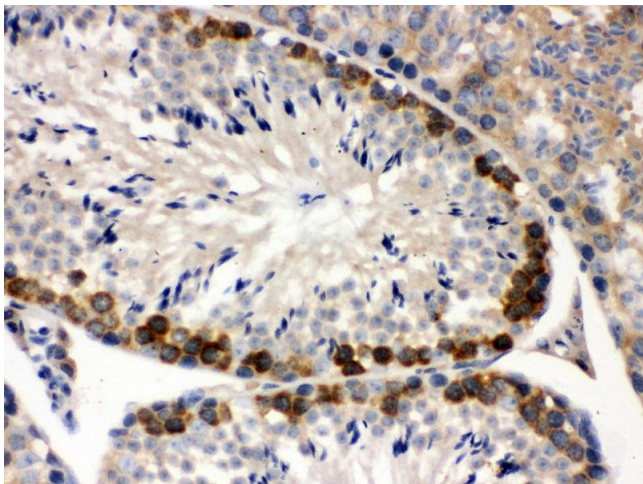
#### Immunohistochemistry

**Image 1.** Anti- YB1 Picoband antibody,IHC(P) IHC(P): Human Lung Cancer Tissue



#### Western Blotting

**Image 2.** Anti- YB1 Picoband antibody, Western blotting All lanes: Anti YB1 at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ug Lane 3: SMMC Whole Cell Lysate at 40ug Lane 4: RH35 Whole Cell Lysate at 40ug Lane 5: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 36KD Observed bind size: 50KD



#### Immunohistochemistry

**Image 3.** Anti- YB1 Picoband antibody,IHC(P) IHC(P): Mouse Testis Tissue

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3043966.