

Datasheet for ABIN7603105
anti-YBX1 antibody (Middle Region)



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Overview

Quantity:	100 µg
Target:	YBX1
Binding Specificity:	Middle Region
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This YBX1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-YB1/Ybx1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of mouse YB1/Ybx1, identical to the related rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-YB1/Ybx1 Antibody Picoband® (ABIN7603105). Tested in Flow Cytometry, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	YBX1
Alternative Name:	Ybx1 (YBX1 Products)
Background:	Synonyms: Neuronal migration protein doublecortin,Doublin,Lissencephalin-X,Lis-X,DCX,DBCN, LISX, Tissue Specificity: Highly expressed in neuronal cells of fetal brain (in the majority of cells of the cortical plate, intermediate zone and ventricular zone), but not expressed in other fetal tissues. In the adult, highly expressed in the brain frontal lobe, but very low expression in other regions of brain, and not detected in heart, placenta, lung, liver, skeletal muscles, kidney and pancreas. Background: Y box binding protein 1 also known as Y-box transcription factor or nuclease-sensitive element-binding protein 1 is a protein that in humans is encoded by the YBX1 gene. Enables chromatin binding activity, mRNA binding activity, and single-stranded DNA binding activity. Involved in epidermis development and negative regulation of cellular senescence. Acts upstream of or within several processes, including cellular response to interleukin-7, negative regulation of striated muscle cell differentiation, and negative regulation of transcription by RNA polymerase II. Located in cytoplasm and nucleus. Part of histone pre-mRNA 3'end processing complex. Is expressed in several structures, including branchial arch, central nervous system, facial prominence, gonad, and retina. Orthologous to human YBX1 (Y-box binding protein 1).
Molecular Weight:	50 kDa
Gene ID:	22608
UniProt:	P62960
Pathways:	Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Mouse 1. Bhullar, J., Sollars, V. E. YBX1 expression and function in early hematopoiesis and leukemic cells. Immunogenetics 63: 337-350, 2011. 2. Coles, L. S., Diamond, P., Occhiodoro, F., Vadas, M. A., Shannon, M. F. Cold shock domain proteins repress transcription from the GM-CSF promoter. Nucleic Acids Res. 24: 2311-2317, 1996. 3. Didier, D. K., Schiffenbauer, J., Woulfe, S. L., Zacheis, M., Schwartz, B. D. Characterization of the cDNA encoding a protein binding to the major histocompatibility complex class II Y box. Proc. Nat. Acad. Sci. 85: 7322-7326, 1988.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.