

Mouse anti-Human YBX1/Y-box Binding Protein 1/YB-1 Monoclonal Antibody | anti-YBX1 antibody

YBX1/Y-box Binding Protein 1/YB-1 (Tumor Biomarker)

CATALOG # AAA215114	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

YBX1/Y-box Binding Protein 1/YB-1; Monoclonal Antibody; YBX1/Y-box Binding Protein 1/YB-1 (Tumor Biomarker); BP-8; CSDA2; CSDB; DBPB; MDR-NF1; NSEP-1; NSEP1; YB-1; YB1; anti-YBX1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	YBX1/2430
Specificity	The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. Y-box binding protein-1 (YBX1) is the prototypic member of the cold shock protein family that fulfills numerous cellular functions. In the nucleus, YBX1 protein orchestrates transcription of proliferation-related genes, whereas in the cytoplasm it associates with mRNA and directs translation. In human tumor entities, such as breast, lung and prostate cancer, cellular YBX1 expression indicates poor clinical outcome, suggesting that YBX1 is an attractive marker to predict patients' prognosis.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	324
Applicable Applications for anti-YBX1 antibody	IHC (Immunohistochemistry)
Positive Control	MCF-7, HEK293 or PC12 cells. Prostate, Breast or Lung Carcinoma.
Immunogen	Recombinant human full-length YBX1 protein
Cellular Localization	Cytoplasmic and Nuclear
Hu-chromosome Location	1p34.2
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using YBX1 Mouse Monoclonal Antibody (YBX1/2430) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with YBX1 Mouse Monoclonal Antibody (YBX1/2430)



SDS-PAGE

SDS-PAGE Analysis Purified YBX1 Mouse Monoclonal Antibody (YBX1/2430). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

References	1. Janz M, et al. Int J Cancer. 2002, 97 (3): 278-282. 2. Gimenez-Bonafe P, et al. Prostate. 2004, 59 (3): 337-349
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NCBI AND UNIPROT INFORMATION

NCBI GI #	34098946
NCBI GeneID	4904
NCBI Accession #	NP_004550.2
NCBI GenBank Nucleotide #	NP_004550.2
UniProt Accession #	P67809
Molecular Weight	36kDa
NCBI Official Full Name	nuclease-sensitive element-binding protein 1
NCBI Official Synonym Full Names	Y-box binding protein 1
NCBI Official Symbol	YBX1
NCBI Official Synonym Symbols	YB1; BP-8; CSDB; DBPB; YB-1; CBF-A; CSDA2; EFI-A; NSEP1; NSEP-1; MDR-NF1
NCBI Protein Information	nuclease-sensitive element-binding protein 1
UniProt Protein Name	Nuclease-sensitive element-binding protein 1
UniProt Gene Name	YBX1
UniProt Synonym Gene Names	NSEP1; YB1; CBF-A; DBPB; EFI-A; YB-1
UniProt Entry Name	YBOX1_HUMAN

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