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36-2874: Anti-YBX1 / Y-box Binding Protein 1 / YB-1 (Tumor Biomarker) Monoclonal Antibody(Clone: YBX1/2430)

Clonality :	Monoclonal
Clone Name :	YBX1/2430
Application :	IHC
Reactivity :	Human
Gene :	YBX1
Gene ID :	4904
Uniprot ID :	P67809
Alternative Name :	BP-8, CSDA2, CSDB, DBPB, MDR-NF1, NSEP-1, NSEP1, YB-1, YB1
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant human full-length YBX1 protein

Description

The specificity of this monoclonal antibody to its intended target was validated by HuProtTM 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, sÂµggesting that YBX1 is an attractive marker to predict patients' prognosis.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

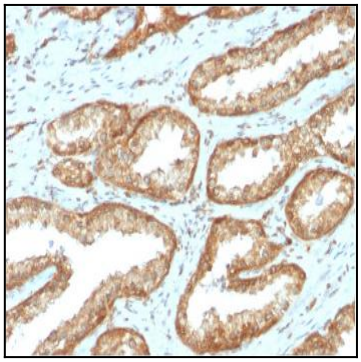

Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with YBX1 Mouse Monoclonal Antibody (YBX1/2430)

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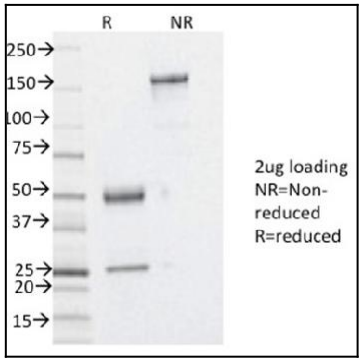

Fig. 2: SDS-PAGE Analysis Purified YBX1 Mouse Monoclonal Antibody (YBX1/2430). Confirmation of Integrity and Purity of Antibody.

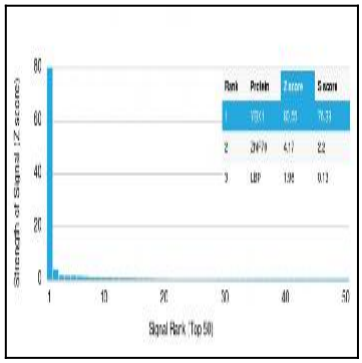

Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using YBX1 Mouse Monoclonal Antibody (YBX1/2430) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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.

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