YBX1 Polyclonal antibody

Catalog Number: 20339-1-AP

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Basic Information

Catalog Number:
20339-1-AP

GenBank Accession Number:
BC010430

Full Name:
Y box binding protein 1

Calculated MW:
324 aa, 36 kDa

Observed MW:
50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:50-1:500
IF 1:20-1:200

Positive Controls:
WB: MCF7 cells, HEK-293 cells, HeLa cells, Jurkat cells, mouse spleen tissue
IP: Jurkat cells,
IHC: human colon cancer tissue, human renal cell carcinoma tissue, human placenta tissue, human cervical cancer tissue
IF: HeLa cells,

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, RIP, WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

Note - IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Y box binding protein 1 (YBX1) is one of cis-acting elements which has a role in regulation of the expression of HLA class II genes. YBX1 is great of importance in regulation of PTP1B expression. It can bind to splice sites mediate pre-mRNA alternative splicing regulation. Also it involves in the regulation of translation by modulation of the interaction between the mRNA and eukaryotic initiation factors. Its transcripational activity on the multidrug resistance gene MDR1 is enhanced in presence of the APEX1 acetylated form at 'Lys-6' and 'Lys-7'. The secreted form acts as an extracellular mitogen and stimulates cell migration and proliferation. The calculated molecular weight of YBX1 is 36 kDa, but modified YBX1 is about 36-56 kDa. (PMID: 27384875)

Notable Publications

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<tr>
<td>Yan Chen</td>
<td>31488005</td>
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<td>Haiyan An</td>
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<td>J Cell Biol</td>
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Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 20339-1-AP (YBX1 antibody) at dilution of 1:200 (under 40x lens).

MCF7 cells were subjected to SDS PAGE followed by western blot with 20339-1-AP (YBX1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 20339-1-AP (YBX1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).