

Datasheet for ABIN390263
anti-YBX1 antibody (C-Term)



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3 Images

Overview

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|----------------------|--|
| Quantity: | 400 µL |
| Target: | YBX1 |
| Binding Specificity: | AA 276-305, C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This YBX1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

Product Details

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| Immunogen: | This YBX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 276-305 amino acids from the C-terminal region of human YBX1. |
| Clone: | RB14114 |
| Isotype: | Ig Fraction |
| Predicted Reactivity: | B, M, Rat |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |

Target Details

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|---------|------|
| Target: | YBX1 |
|---------|------|

Target Details

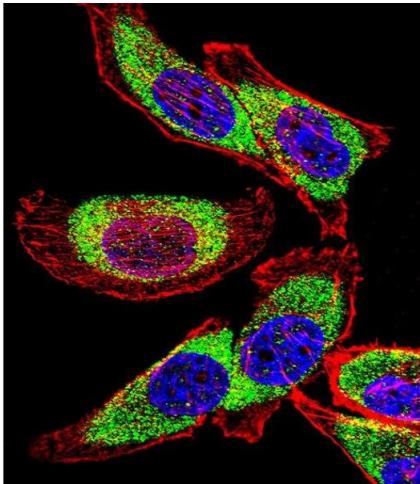
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|-------------------|---|
| Alternative Name: | YBX1 (YBX1 Products) |
| Background: | YBX1 binds to splice sites in pre-mRNA and regulates splice site selection. This protein binds and stabilizes cytoplasmic mRNA and contributes to the regulation of translation by modulating the interaction between the mRNA and eukaryotic initiation factors. It binds to promoters that contain a Y-box (5'-CTGATTGGCCAA-3'), such as HLA class II genes. It regulates the transcription of numerous genes and promotes separation of DNA strands that contain mismatches or are modified by cisplatin. It has endonucleolytic activity and can introduce nicks or breaks into double-stranded DNA (in vitro), and it may play a role in DNA repair. |
| Molecular Weight: | 35924 |
| Gene ID: | 4904 |
| NCBI Accession: | NP_004550 |
| UniProt: | P67809 |
| Pathways: | Regulation of Muscle Cell Differentiation |

Application Details

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| Application Notes: | IF: 1:10~50. WB: 1:1000. WB: 1:1000 |
| Restrictions: | For Research Use only |

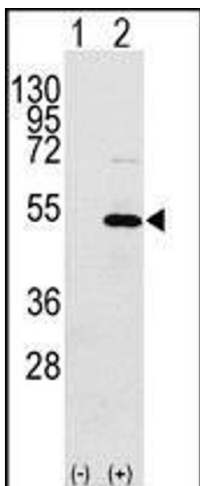
Handling

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| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |



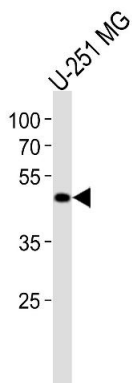
Immunofluorescence

Image 1. Fluorescent confocal image of cell stained with YBX1 Antibody (C-term) (ABIN390263 and ABIN2840721). cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with YBX1 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). Nuclei were counterstained with DAPI (blue) (10 µg/mL, 10 min). YBX1 immunoreactivity is localized to Cytoplasm significantly.



Western Blotting

Image 2. Western blot analysis of YBX1 (arrow) using rabbit polyclonal YBX1 Antibody (C-term) (ABIN390263 and ABIN2840721). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the YBX1 gene (Lane 2) (Origene Technologies).



Western Blotting

Image 3. Western blot analysis of lysate from U-251 MG cell line, using YBX1 Antibody (C-term) (ABIN390263 and ABIN2840721). (ABIN390263 and ABIN2840721) was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg.