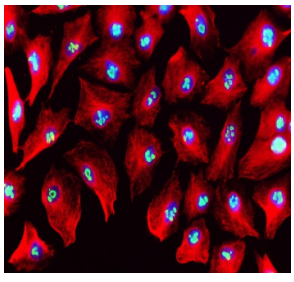
MYBBP1A Antibody / Myb-binding protein 1A (FY12101)

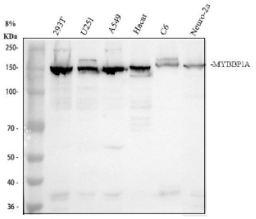
Catalog No.	Formulation	Size
FY12101	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

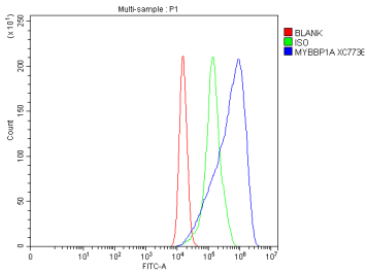
Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9BQG0
Localization	Nucleus, Nucleolus, Cytoplasm
Applications	Western Blot : 0.25-0.5ug/ml Immunocytochemistry/Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This MYBBP1A antibody is available for research use only.



Immunofluorescent analysis of MYBBP1A using anti-MYBBP1A antibody (green) and anti-Beta Tubulin antibody (red). MYBBP1A was detected in an immunocytochemical section of cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/ml rabbit anti-MYBBP1A antibody and mouse anti-Beta Tubulin antibody overnight at 4oC. DyLight 488 Conjugated Goat Anti-Rabbit IgG and Cy3 Conjugated Goat Anti-Mouse IgG were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37oC. The section was counterstained with DAPI (blue). Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Western blot analysis of MYBBP1A using anti-MYBBP1A antibody. Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: human 293T whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human whole cell lysates, Lane 4: human Hacat whole cell lysates, Lane 5: rat C6 whole cell lysates, Lane 6: mouse Neuro-2a whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MYBBP1A antibody at 0.5 ug/ml overnight at 4oC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal was developed using an ECL Plus Western Blotting Substrate. A predominant doublet is observed at ~149-155 kDa, consistent with differential post-translationally modified forms of the nucleolar protein.



Flow Cytometry analysis of cells using anti-MYBBP1A antibody. Overlay histogram showing cells stained with (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MYBBP1A antibody (1 ug/million cells) for 30 min at 20oC. DyLight 488 conjugated goat anti-rabbit IgG (5-10 ug/million cells) was used as secondary antibody for 30 minutes at 20oC. Isotype control antibody (Green line) was rabbit IgG (1 ug/million cells) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Description

MYBBP1A antibody detects Myb-binding protein 1A, encoded by the MYBBP1A gene. Myb-binding protein 1A is a nucleolar protein that participates in transcriptional regulation, ribosome biogenesis, and stress signaling. MYBBP1A antibody provides researchers with a versatile reagent for studying nuclear protein interactions, tumor suppression, and stress-responsive transcriptional programs.

Myb-binding protein 1A was first identified as a factor that interacts with the transcription factor c-Myb. Research using MYBBP1A antibody has shown that it acts as a transcriptional regulator by modulating Myb-dependent genes and other transcriptional pathways. It functions as a co-repressor or co-activator depending on cellular context, influencing cell proliferation and differentiation.

Studies with MYBBP1A antibody have revealed that the protein localizes to the nucleolus under basal conditions but translocates to the nucleoplasm upon cellular stress. This dynamic distribution links ribosome biogenesis to stress-responsive transcriptional regulation. MYBBP1A influences ribosomal RNA transcription, p53 activation, and chromatin remodeling, emphasizing its multifunctional nature.

Dysregulation of Myb-binding protein 1A has been linked to cancer and stress-related pathology. Research using MYBBP1A antibody has shown that reduced expression contributes to tumorigenesis by impairing p53-mediated responses. Conversely, overexpression can suppress tumor growth by activating apoptosis pathways. This dual role highlights its complex involvement in cancer biology.

Beyond cancer, MYBBP1A participates in metabolic regulation and cellular senescence. Research using MYBBP1A antibody has suggested roles in controlling NF-kB signaling, mitochondrial stress responses, and transcription of metabolic genes. These findings underscore its integration of stress responses with transcriptional networks.

MYBBP1A antibody is widely applied in western blotting, immunohistochemistry, and chromatin immunoprecipitation. Western blotting quantifies protein levels, immunohistochemistry demonstrates nucleolar localization, and chromatin immunoprecipitation identifies transcriptional binding partners. These applications make MYBBP1A antibody

indispensable in nuclear biology and cancer research.

By providing validated MYBBP1A antibody reagents, NSJ Bioreagents supports studies into transcriptional regulation, stress signaling, and tumor suppression. Detection of Myb-binding protein 1A provides researchers with insight into how nucleolar proteins integrate ribosome biogenesis and stress responses.

Application Notes

Optimal dilution of the MYBBP1A antibody should be determined by the researcher.

Immunogen

E.coli-derived human MYBBP1A recombinant protein (Position: D41-Q1058) was used as the immunogen for the MYBBP1A antibody.

Storage

After reconstitution, the MYBBP1A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.