

Product datasheet

Anti-hnRNP U/p120 antibody [3G6] ab10297

★★★★☆ [7 Abreviews](#) [28 References](#) [4 Images](#)

Overview

Product name	Anti-hnRNP U/p120 antibody [3G6]
Description	Mouse monoclonal [3G6] to hnRNP U/p120
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P, Flow Cyt
Species reactivity	Reacts with: Human Does not react with: Chicken, Lizard
Immunogen	Full length native protein (purified) corresponding to Human hnRNP U/p120. Crosslinked RNPs eluted from an oligo (dt) cellulose column. Database link: Q00839
Positive control	WB: HeLa cytoplasmic and nuclear fraction. HEK-293T whole cell lysate. ICC/IF: U-2 OS cells. IHC-P: Human cerebellum tissue. Flow Cytometry: HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Protein A purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	3G6

Myeloma	Sp2/0
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab10297 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (3)	Use at an assay dependent concentration. Detects a band of approximately 97 kDa (predicted molecular weight: 120 kDa).
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function	Component of the CRD-mediated complex that promotes MYC mRNA stabilization. Binds to pre-mRNA. Has high affinity for scaffold-attached region (SAR) DNA. Binds to double- and single-stranded DNA and RNA.
Sequence similarities	Contains 1 B30.2/SPRY domain. Contains 1 SAP domain.
Post-translational modifications	Extensively phosphorylated. Arg-733 and Arg-739 are dimethylated, probably to asymmetric dimethylarginine.
Cellular localization	Nucleus. Cytoplasm. Cell surface. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Component of ribonucleosomes. Also found associated with the cell surface.

Images



Western blot - Anti-hnRNP U/p120 antibody [3G6] (ab10297)

All lanes : Anti-hnRNP U/p120 antibody [3G6] (ab10297) at 1/1000 dilution

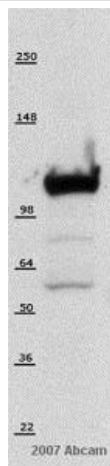
Lane 1 : Cytoplasmic fraction of HeLa (human epithelial cell line from cervix adenocarcinoma) lysate

Lane 2 : Nuclear fraction of HeLa (human epithelial cell line from cervix adenocarcinoma) lysate

Predicted band size: 120 kDa

Observed band size: 120 kDa

This correlates with the information published in the reference Dreyfuss, G. et. al.



Western blot - Anti-hnRNP U/p120 antibody [3G6] (ab10297)

This image is courtesy of an Abreview submitted by Dr Stoil Dmitrov

Anti-hnRNP U/p120 antibody [3G6] (ab10297) at 1/5000 dilution + HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 100 μ g

Secondary

HRP conjugated sheep anti-mouse IgG

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 120 kDa

Observed band size: 120 kDa

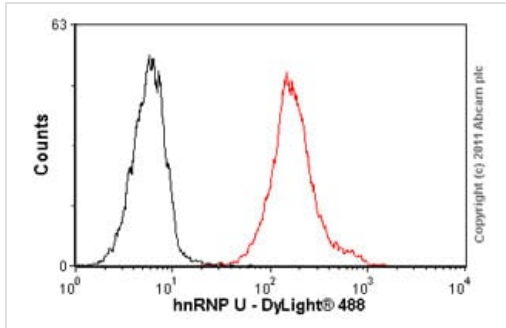
Additional bands at: 60 kDa, 80 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP U/p120 antibody [3G6] (ab10297)

ab10297 (4 μ g/ml) staining hnRNP U/p120 in human cerebellum using an automated system (DAKO Autostainer Plus). Using this protocol there is strong nuclear staining of Purkinje cells neurons. Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 minutes. They were then blocked with a protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for

30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Flow Cytometry - Anti-hnRNP U/p120 antibody
[3G6] (ab10297)

Overlay histogram showing HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained with ab10297 (red line). The cells were fixed with 100% methanol (5 minutes) and then permeabilized with 0.1% PBS-Tween for 20 minutes. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab10297, 1 μ g/ 1×10^6 cells) for 30 minutes at 22°C. The secondary antibody used was DyLight[®] 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 minutes at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2 μ g/ 1×10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 minutes)/permeabilized in 0.1% PBS-Tween used under the same conditions.

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