Product datasheet

# Anti-HNRNPA1 Antibody

**Catalog Number: *A01476***

BOSTER
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## Basic Information

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|---|---|
| **Product Name** | Anti-HNRNPA1 Antibody |
| **Gene Name** | HNRNPA1 |
| **Source** | Rabbit |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC, IF, ICC/IF, FCM |
| **Contents** | 500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol. |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the N-terminus of human HnRNP A1 (8-42aa KEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTD), identical to the related mouse and rat sequences. |
| **concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 36KD |
| **Dilution Ratios** | Western blot(WB): 1:500-2000<br>Immunohistochemistry in paraffin section (IHC): 1:50-400<br>Immunocytochemistry/Immunofluorescence(ICC/IF): 1:50-400<br>Flow cytometry (FCM): 1-3 µg/1x$10^6$ cells<br>Immunofluorescence (IF): 1:50-400<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Heterogeneous nuclear ribonucleoprotein A1 is a protein that in humans is encoded by the HNRNPA1 gene. This gene encodes a member of a family of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs), which are RNA-binding proteins that associate with pre-mRNAs in the nucleus and influence pre-mRNA processing, as well as other aspects of mRNA metabolism and transport. The protein encoded by this gene is one of the most abundant core proteins of hnRNP complexes and plays a key role in the regulation of alternative splicing. Mutations in this gene have been observed in individuals with amyotrophic lateral sclerosis 20. Multiple alternatively spliced transcript variants have been found. There are numerous pseudogenes of this gene distributed throughout the genome.

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# Selected Validation Data

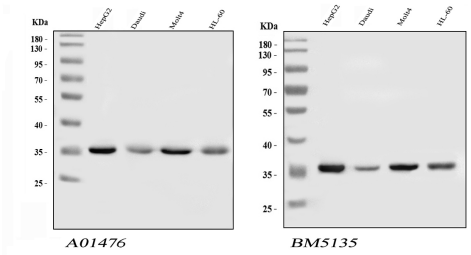


Figure 1. Western blot analysis of anti- HNRNPA1 antibody (A01476). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: HepG2 whole cell lysates,
Lane 2: Daudi whole cell lysates,
Lane 3: Molt4 whole cell lysates,
Lane 4: HL-60 whole cell lysates.
Use rabbit anti- HNRNPA1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for HNRNPA1 at approximately 36KD. The expected band size for HNRNPA1 is at 39KD.

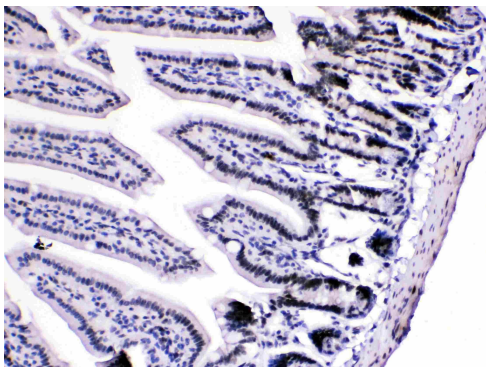

Figure 2. IHC analysis of HnRNP A1 using anti-HnRNP A1 antibody (A01476).HnRNP A1 was detected in paraffin-embedded section of mouse intestine tissues. anti-HnRNP A1 Antibody (A01476) . Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

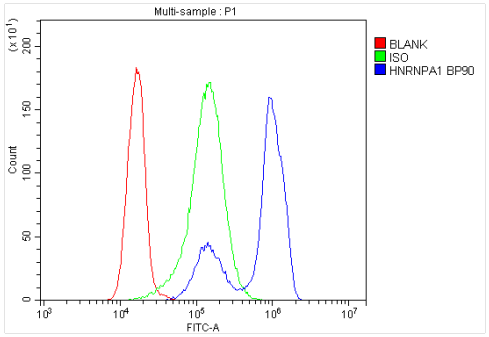


Figure 10.Flow cytometry analysis of K562 cell(1x106) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).