

Mouse hnRNP D/AUF1/HNRNPD Monoclonal Antibody | anti-HNRNPD antibody

Anti-hnRNP D/AUF1/HNRNPD Antibody (monoclonal, 4F3)

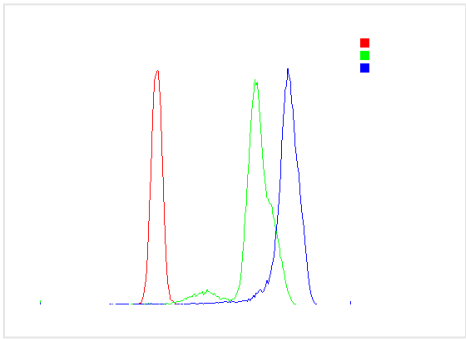
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19388	Mouse	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

hnRNP D/AUF1/HNRNPD; Monoclonal Antibody; Anti-hnRNP D/AUF1/HNRNPD Antibody (monoclonal; 4F3); Heterogeneous nuclear ribonucleoprotein D0; hnRNP D0; AU-rich element RNA-binding protein 1; HNRNPD; AUF1; HNRPD ; heterogeneous nuclear ribonucleoprotein D; anti-HNRNPD antibody

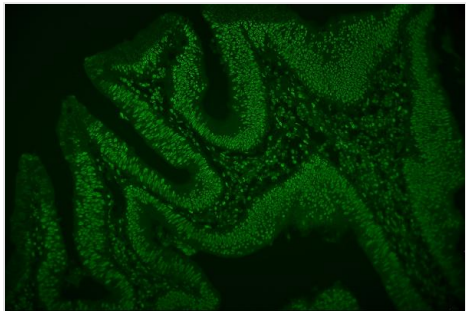
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	4F3
Specificity	Mouse IgG monoclonal antibody for hnRNP D/AUF1/HNRNPD detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-HNRNPD antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.1-0.5ug/ml Human, Mouse, Rat IHC-P: 0.5-1ug/ml Human, Rat ICC/IF: 4ug/ml Human IF: 4ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human
Immunogen	E Coli-derived human hnRNP D/AUF1/HNRNPD recombinant protein (Position: E88-N246).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



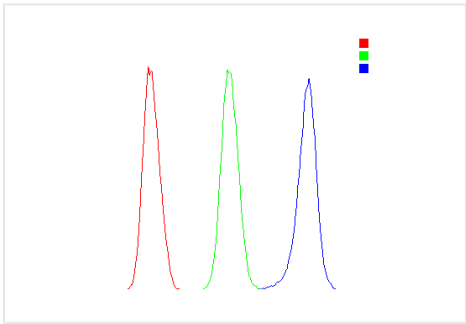
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of U937 cells using anti- hnRNP D/AUF1/HNRNPD antibody (AAA19388).Overlay histogram showing U937 cells stained with AAA19388 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-hnRNP D/AUF1/HNRNPD Antibody (AAA19388, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



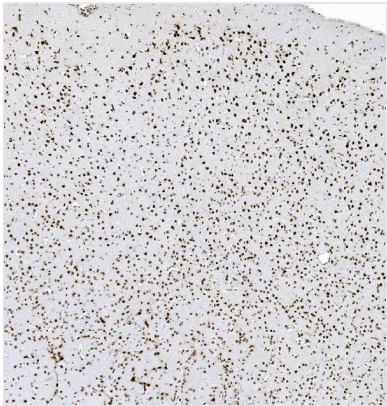
IF (Immunofluorescence)

Figure 4. IF analysis of hnRNP D/AUF1/HNRNPD using anti-hnRNP D/AUF1/HNRNPD antibody (AAA19388).hnRNP D/AUF1/HNRNPD was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 4μg/mL mouse anti-hnRNP D/AUF1/HNRNPD Antibody (AAA19388) overnight at 4 degree C. Biotin conjugated goat anti-mouse IgG (BA1001) was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using DyLight®488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



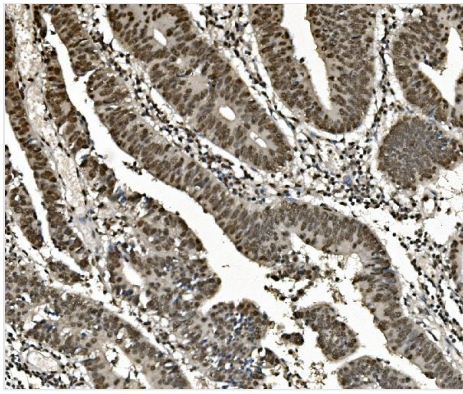
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of SiHa cells using anti- hnRNP D/AUF1/HNRNPD antibody (AAA19388).Overlay histogram showing SiHa cells stained with AAA19388 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-hnRNP D/AUF1/HNRNPD Antibody (AAA19388, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



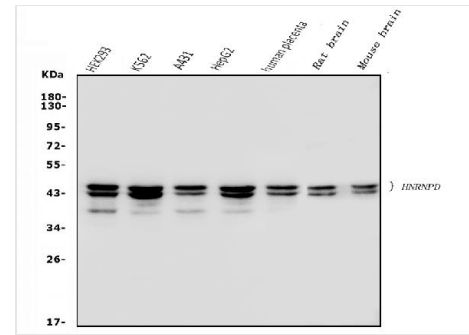
IHC (Immunohistochemistry)

Figure 3. IHC analysis of hnRNP D/AUF1/HNRNPD using anti-hnRNP D/AUF1/HNRNPD antibody (AAA19388).hnRNP D/AUF1/HNRNPD was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml mouse anti-hnRNP D/AUF1/HNRNPD Antibody (AAA19388) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of hnRNP D/AUF1/HNRNP D using anti-hnRNP D/AUF1/HNRNP D antibody (AAA19388). hnRNP D/AUF1/HNRNP D was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μg/ml mouse anti-hnRNP D/AUF1/HNRNP D Antibody (AAA19388) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



WB (Western Blot)

Figure 1. Western blot analysis of hnRNP D/AUF1/HNRNP D using anti-hnRNP D/AUF1/HNRNP D antibody (AAA19388). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50 μg of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates; Lane 2: human K562 whole cell lysates; Lane 3: human A431 whole cell lysates; Lane 4: human HEPG2 whole cell lysates; Lane 5: human placenta tissue lysates; Lane 6: rat brain tissue lysates; Lane 7: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-hnRNP D/AUF1/HNRNP D antigen affinity purified monoclonal antibody (Catalog # AAA19388) at 0.5 μg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # with Tanon 5200 system). A specific band was detected for hnRNP D/AUF1/HNRNP D at approximately 43-45 kDa. The expected band size for hnRNP D/AUF1/HNRNP D is at 38 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HNRNP D antibody	Heterogeneous nuclear ribonucleoprotein D0 (HNRNP D) also known as AU-rich element RNA-binding protein 1 (AUF1) is a protein that in humans is encoded by the HNRNP D gene. It is mapped to 4q21.22. This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are nucleic acid binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has two repeats of quasi-RRM domains that bind to RNAs. It localizes to both the nucleus and the cytoplasm. This protein is implicated in the regulation of mRNA stability. Alternative splicing of this gene results in four transcript variants.
References	1. Arao Y, Kuriyama R, Kayama F, Kato S (August 2000). "A nuclear matrix-associated factor, SAF-B, interacts with specific isoforms of AUF1/hnRNP D". Arch. Biochem. Biophys. 380 (2): 228-36. 2. Sinsimer KS, Gratacós FM, Knapinska AM, Lu J, Krause CD, Wierzbowski AV, Maher LR, Scudato S, Rivera YM, Gupta S, Turrin DK, De La Cruz MP, Pestka S, Brewer G (September 2008). "Chaperone Hsp27, a novel subunit of AUF1 protein complexes, functions in AU-rich element-mediated mRNA decay". Mol. Cell. Biol. 28 (17): 5223-37. 3. Panda AC, Abdelmohsen K, Yoon JH, Martindale JL, Yang X, Curtis J, Mercken EM, Chenette DM, Zhang Y, Schneider RJ, Becker KG, de Cabo R, Gorospe M (Aug 2014). "RNA-binding protein AUF1 promotes myogenesis by regulating MEF2C expression levels". Mol Cell Biol. 34 (16): 3106-19.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51477708
NCBI GeneID	3184
NCBI Accession #	NP_001003810.1
NCBI GenBank Nucleotide #	NM_001003810.1
UniProt Accession #	Q14103; P07029; Q01858; Q14100; Q14101; Q14102; Q4W5A1; Q9UCE8; Q9UCE9; A8K9J2
Molecular Weight	38,434 Da

NCBI Official Full Name	heterogeneous nuclear ribonucleoprotein D0 isoform d
NCBI Official Synonym Full Names	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)
NCBI Official Symbol	HNRNPD
NCBI Official Synonym Symbols	P37; AUF1; AUF1A; HNRPD; hnRNPD0
NCBI Protein Information	heterogeneous nuclear ribonucleoprotein D0; hnRNP D0; ARE-binding protein AUF1, type A
UniProt Protein Name	Heterogeneous nuclear ribonucleoprotein D0
UniProt Gene Name	HNRNPD
UniProt Synonym Gene Names	AUF1; HNRPD; hnRNP D0
UniProt Entry Name	HNRPD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hnrnp-d-auf1-hnrnpd-antibody-clone-4f3-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19388>