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HNRNPD Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16090a

Product Information

Application	IF, WB, E
Primary Accession	Q14103
Other Accession	Q9JJ54, Q60668, NP_002129.2, NP_112738.1
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	57-85

Additional Information

Other Names	Heterogeneous nuclear ribonucleoprotein D0, hnRNP D0, AU-rich element RNA-binding protein 1, HNRNPD, AUF1, HNRPD
Target/Specificity	This HNRNPD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 57-85 amino acids from the N-terminal region of human HNRNPD.
Dilution	IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HNRNPD Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

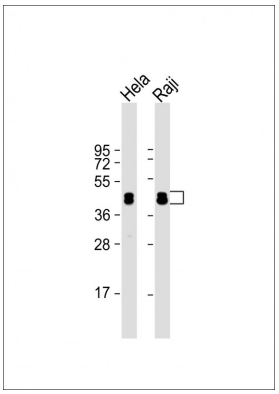
This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are nucleic acid binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA 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.

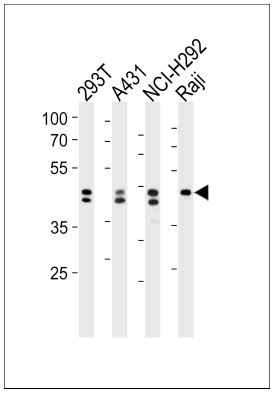
References

Ishimaru, D., et al. J. Biol. Chem. 285(35):27182-27191(2010)
Zhai, B., et al. J. Biol. Chem. 285(31):23568-23580(2010)
Vazquez-Chantada, M., et al. Gastroenterology 138(5):1943-1953(2010)
Trojanowicz, B., et al. Endocr. Relat. Cancer 16(3):857-871(2009)
Pautz, A., et al. J. Biol. Chem. 284(5):2755-2766(2009)

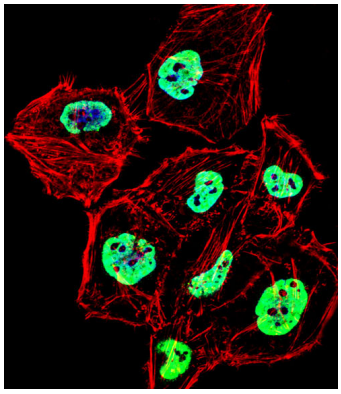
Images



All lanes : Anti-HNRNPD Antibody (N-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



HNRNPD Antibody (N-term) (Cat. #AP16090a) western blot analysis in 293T,A431,NCI-H292,Raji cell line lysates (35ug/lane).This demonstrates the HNRNPD antibody detected the HNRNPD protein (arrow).



Fluorescent confocal image of Hela cell stained with HNRNPD Antibody (N-term)(Cat#AP16090a).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HNRNPD 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 (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). HNRNPD immunoreactivity is localized to Nucleus and Cytoplasm significantly.