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U2AF2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14583a

Product Information

Application	WB, E
Primary Accession	P26368
Other Accession	P26369, NP_001012496.1, NP_009210.1
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34565
Calculated MW	53501
Antigen Region	1-30

Additional Information

Gene ID	11338
Other Names	Splicing factor U2AF 65 kDa subunit, U2 auxiliary factor 65 kDa subunit, hU2AF(65), hU2AF65, U2 snRNP auxiliary factor large subunit, U2AF2, U2AF65
Target/Specificity	This U2AF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human U2AF2.
Dilution	WB~~1:2000 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	U2AF2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	U2AF2
Synonyms	U2AF65

Function	Plays a role in pre-mRNA splicing and 3'-end processing (PubMed:17024186). By recruiting PRPF19 and the PRP19C/Prp19 complex/NTC/Nineteen complex to the RNA polymerase II C-terminal domain (CTD), and thereby pre-mRNA, may couple transcription to splicing (PubMed:21536736). Induces cardiac troponin-T (TNNT2) pre-mRNA exon inclusion in muscle. Regulates the TNNT2 exon 5 inclusion through competition with MBNL1. Binds preferentially to a single-stranded structure within the polypyrimidine tract of TNNT2 intron 4 during spliceosome assembly. Required for the export of mRNA out of the nucleus, even if the mRNA is encoded by an intron-less gene. Represses the splicing of MAPT/Tau exon 10. Positively regulates pre-mRNA 3'-end processing by recruiting the CFIm complex to cleavage and polyadenylation signals (PubMed:17024186).
Cellular Location	Nucleus.

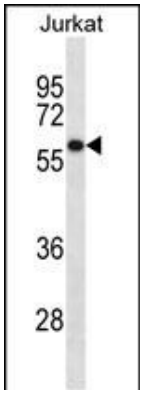
Background

U2 auxiliary factor (U2AF), comprised of a large and a small subunit, is a non-snRNP protein required for the binding of U2 snRNP to the pre-mRNA branch site. This gene encodes the U2AF large subunit which contains a sequence-specific RNA-binding region with 3 RNA recognition motifs and an Arg/Ser-rich domain necessary for splicing. The large subunit binds to the polypyrimidine tract of introns early during spliceosome assembly. Multiple transcript variants have been detected for this gene, but the full-length natures of only two have been determined to date. [provided by RefSeq].

References

Webby, C.J., et al. Science 325(5936):90-93(2009) Martins de Araujo, M., et al. RNA 15(4):515-523(2009) Corsini, L., et al. J. Biol. Chem. 284(1):630-639(2009) Jenkins, J.L., et al. J. Biol. Chem. 283(48):33641-33649(2008) Izquierdo, J.M. Mol. Biol. Cell 19(8):3299-3307(2008)

Images



U2AF2 Antibody (N-term) (Cat. #AP14583a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the U2AF2 antibody detected the U2AF2 protein (arrow).

Citations

- Systematic Identification and Functional Validation of New snoRNAs in Human Muscle Progenitors

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