

Rabbit U2AF2 Polyclonal Antibody | anti-U2AF2 antibody

U2AF2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326468	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

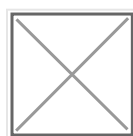
PRODUCT SYNONYMS

U2AF2; Polyclonal Antibody; U2AF2 Antibody; hU2AF(65); hU2AF65; Splicing factor U2AF 65 kDa subunit; U2 (RNU2) small nuclear RNA auxiliary factor 2; U2 auxiliary factor 65 kDa subunit; U2 small nuclear ribonucleoprotein auxiliary factor (65kD); U2 small nuclear RNA auxiliary factor 2; U2 snRNP auxiliary factor large subunit; U2af2; U2AF2_HUMAN; U2AF65; anti-U2AF2 antibody

PRODUCT SPECIFICATIONS

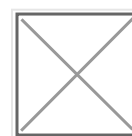
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	U2AF2 antibody detects endogenous levels of total U2AF2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	471
Applicable Applications for anti-U2AF2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human U2AF2
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA326468 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using U2AF2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-U2AF2 antibody	Description: 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. 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). Subunit Structure: Interacts with U2AF1L4 (By similarity). Heterodimer with U2AF1 (PubMed:11551507). Binds unphosphorylated SF1 (PubMed:10449420, PubMed:12718882). Interacts with SCAF11 and SNW1 (PubMed:9447963, PubMed:21460037). Interacts with ZRSR2/U2AF1-RS2. Interacts with RBM17 (PubMed:17589525). Interacts with PRPF19; the interaction is direct. Interacts with POLR2A (via the C-terminal domain); recruits PRPF19 and the Prp19 complex to the pre-mRNA (PubMed:21536736). Interacts with KHDC4 (Isoform 2) (PubMed:19641227). Interacts with ZRSR2 (PubMed:9237760). Interacts with the SF3B complex composed of SF3B1, SF3B2, SF3B3, SF3B4, SF3B5, SF3B6 and PHF5A (PubMed:27720643). Interacts (via N-terminus) with CPSF7 (via C-terminus); this interaction stimulates pre-mRNA 3'-end processing by promoting the recruitment of the CFIm complex to cleavage and polyadenylation signals (PubMed:17024186). Post-translational Modifications: Lysyl-hydroxylation at Lys-15 and Lys-276 affects the mRNA splicing activity of the protein, leading to regulate some, but not all, alternative splicing events. Similarity: Belongs to the splicing factor SR family.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	60279268
NCBI GeneID	11338
NCBI Accession #	NP_001012496.1
NCBI GenBank Nucleotide #	NM_001012478.1
UniProt Accession #	P26368; Q96HC5
Molecular Weight	Observed: 53 kDa Predicted: 54 kDa
NCBI Official Full Name	splicing factor U2AF 65 kDa subunit isoform b
NCBI Official Synonym Full Names	U2 small nuclear RNA auxiliary factor 2
NCBI Official Symbol	U2AF2
NCBI Official Synonym Symbols	U2AF65
NCBI Protein Information	splicing factor U2AF 65 kDa subunit
UniProt Protein Name	Splicing factor U2AF 65 kDa subunit
UniProt Gene Name	U2AF2
UniProt Synonym Gene Names	U2AF65; hU2AF(65); hU2AF65

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.