

For Research Use Only

# U2AF35 Monoclonal antibody

Catalog Number: 60289-1-Ig **4 Publications**



## Basic Information

<b>Catalog Number:</b> 60289-1-Ig	<b>GenBank Accession Number:</b> BC001923	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1800 µg/ml	<b>GeneID (NCBI):</b> 7307	<b>CloneNo.:</b> 2B7F11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q01081	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Isotype:</b> IgG2c	<b>Full Name:</b> U2 small nuclear RNA auxiliary factor 1	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Immunogen Catalog Number:</b> AG0399	<b>Calculated MW:</b> 28 kDa	IHC 1:500-1:2000
	<b>Observed MW:</b> 35-40 kDa	IF 1:1000-1:4000

## Applications

**Tested Applications:**  
FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HeLa cells, COLO 320 cells, HEK-293 cells, Raji cells, Ramos cells, HSC-T6 cells

**IP:** HeLa cells,

**IHC:** human breast cancer tissue, human liver cancer tissue

**IF:** HEK-293 cells, HepG2 cells

## Background Information

U2 auxiliary factor (U2AF), comprising a large and a small subunit, is a non-snRNP protein required for the binding of U2 snRNP to the pre-mRNA branch site. U2 (RNU2) small nuclear RNA auxiliary factor 1 (U2AF1, synonyms: RN, FP793, U2AF35, U2AFBP, RNU2AF1) is the small subunit which plays a critical role in both constitutive and enhancer-dependent RNA splicing by directly mediating interactions between the large subunit and proteins bound to the enhancers. The U2AF1 gene is localized to chromosome 21q22.3, which is the critical region for three diseases, progressive myoclonus epilepsy, autoimmune polyglandular disease type 1, and one form of bipolar affective disorder. The calculated molecular weight of U2AF35 is 28 kDa, but the modified U2AF35 protein is about 35-40 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Li Chen	27683217	Nucleic Acids Res	WB
Qingyang Zhang	34551807	Mol Neurodegener	WB
Kazuhiro Fukumura	34389706	Nat Commun	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

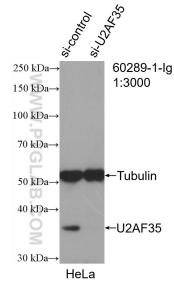
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

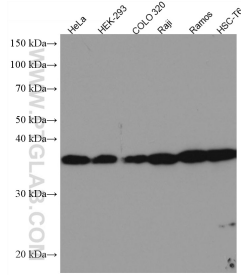
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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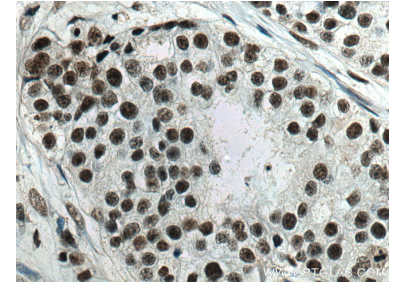
## Selected Validation Data



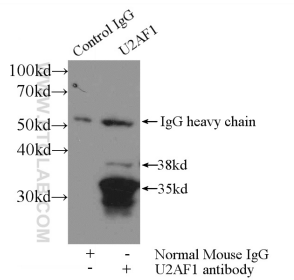
WB result of U2AF35 antibody (60289-1-Ig; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-U2AF35 transfected HeLa cells.



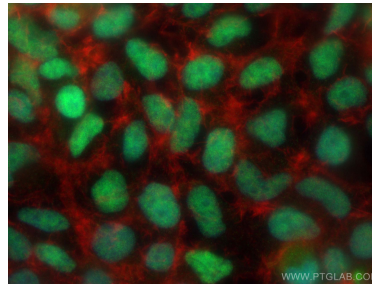
Various lysates were subjected to SDS PAGE followed by western blot with 60289-1-Ig (U2AF35 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



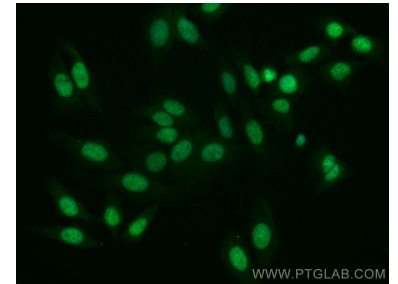
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60289-1-Ig (U2AF35 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



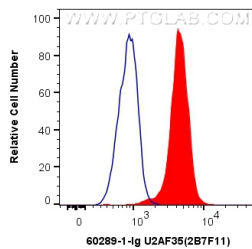
IP result of anti-U2AF35 (IP:60289-1-Ig, 3ug; Detection:60289-1-Ig 1:500) with HeLa cells lysate 3000ug.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using U2AF35 antibody (60289-1-Ig, Clone: 2B7F11) at dilution of 1:2000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using U2AF35 antibody (60289-1-Ig, Clone: 2B7F11) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



$1 \times 10^6$  Ramos cells were intracellularly stained with 0.4 ug Anti-Human U2AF35 (60289-1-Ig, Clone:2B7F11) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).