

For Research Use Only

# USF1 Polyclonal antibody

Catalog Number: 22327-1-AP

Featured Product

3 Publications



## Basic Information

<b>Catalog Number:</b> 22327-1-AP	<b>GenBank Accession Number:</b> BC035505	<b>Purification Method:</b> Antigen Affinity purified
<b>Size:</b> 400 µg/ml	<b>GeneID (NCBI):</b> 7391	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:500-1:2000 IF/ICC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P22415	
<b>Isotype:</b> IgG	<b>Full Name:</b> upstream transcription factor 1	
<b>Immunogen Catalog Number:</b> AG17789	<b>Calculated MW:</b> 34 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, K-562 cells, Jurkat cells IHC : human stomach cancer tissue, IF/ICC : HeLa cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Upstream stimulatory factor 1 (USF1), also name Class B basic helix-loop-helix protein 11. It is a major late transcription factor. USF1 is a member of the basic helix-loop-helix leucine zipper family, and can function as a cellular transcription factor. The encoded protein can activate transcription through pyrimidine-rich initiator (Inr) elements and E box motifs. USF1 has been linked to familial combined hyperlipidemia (FCHL). The USF1 exists two isoform and the calculated molecular weight of USF1 is a 32 kDa and 27 kDa. USF1 has an acetylated form and phosphorylated form, so the molecular weight of USF1 can migrate to about 40 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiuhe Zou	34664331	J Oral Pathol Med	WB
Hao Zhang	33001025	Elife	WB
Beisi Xu	34429148	Genome Biol	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:

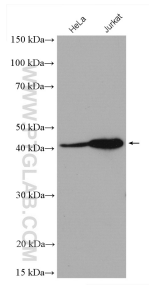
T: 4006900926

E: Proteintech-CN@ptglab.com

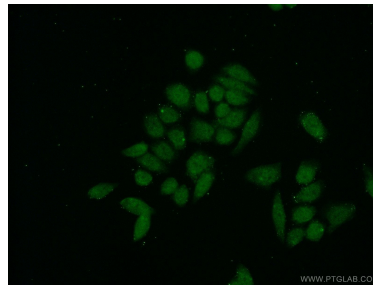
W: ptgcn.com

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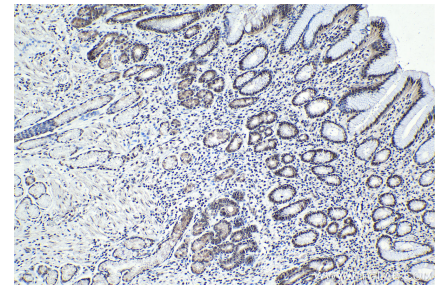
## Selected Validation Data



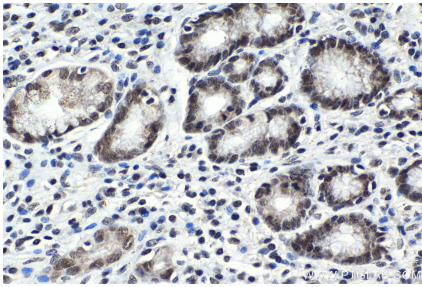
Various lysates were subjected to SDS PAGE followed by western blot with 22327-1-AP (USF1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



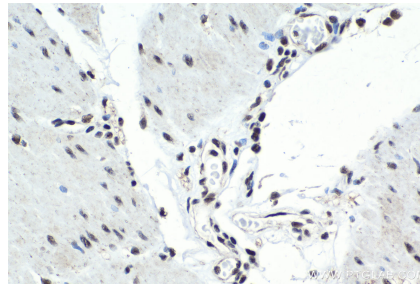
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 22327-1-AP (USF1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 22327-1-AP (USF1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 22327-1-AP (USF1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 22327-1-AP (USF1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).