

For Research Use Only

# FBXW7 Polyclonal antibody

Catalog Number: 55290-1-AP

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 55290-1-AP	<b>GenBank Accession Number:</b> NM_018315	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55294	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> F-box and WD repeat domain containing 7	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 80 kDa	
	<b>Observed MW:</b> 100-110 kDa, 66-75 kDa	

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human

**Cited Species:**  
human, rat, mouse

**Positive Controls:**

**WB :** HepG2 cells, HEK-293 cells, MCF-7 cells, human brain tissue

**IP :** HepG2 cells,

**IHC :** human skin cancer tissue, human colon cancer tissue

**IF :** HeLa cells,

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

## Background Information

FBXW7, also named as FBW7, FBX30, SEL10 and hAgo, is a substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. It probably recognizes and binds to phosphorylated target proteins. FBXW7 is involved in the degradation of cyclin-E, MYC, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1. FBXW7 is a general tumor suppressor in human cancer (PMID: 17909001). FBXW7 has 3 isoforms ( $\alpha/\beta/\gamma$ ) with the calculated molecular mass of 80 kDa, 70 kDa and 66 kDa, and apparent molecular mass of 100-110 kDa and 66-75 kDa (PMID: 18559665). This antibody is specific to FBXW7 and it can recognize all the isoforms of FBXW7.

## Notable Publications

Author	Pubmed ID	Journal	Application
Heling Dong	26360620	Endocrinology	WB
Haiwei Zhang	28507201	Biosci Rep	WB
Xia Li	31257502	Mol Med Rep	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

\*\*\* 20ul sizes contain 0.1% BSA

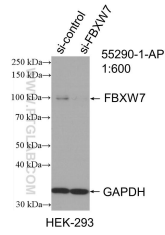
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

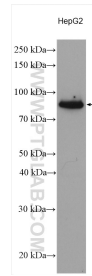
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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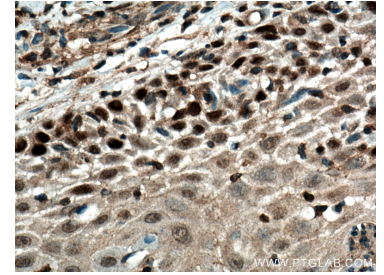
## Selected Validation Data



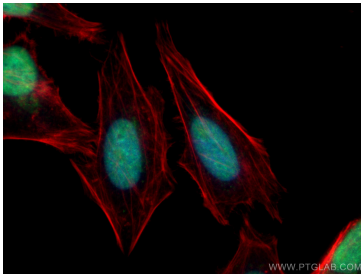
WB result of FBXW7 antibody (55290-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-FBXW7 transfected HEK-293 cells.



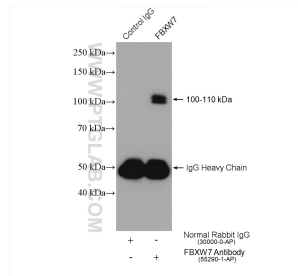
HepG2 cell lysates were subjected to SDS PAGE followed by western blot with 55290-1-AP (FBXW7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 55290-1-AP (FBXW7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 55290-1-AP (FBXW7 antibody), at dilution of 1:200 and CoralLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-FBXW7(IP:55290-1-AP, 4ug; Detection:55290-1-AP 1:500) with HepG2 cells lysate 960 ug.