

For Research Use Only

# FBXW7 Polyclonal antibody

Catalog Number: 28424-1-AP

Featured Product

37 Publications



## Basic Information

### Catalog Number:

28424-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG28471

### GenBank Accession Number:

NM\_001349798

### GeneID (NCBI):

55294

### UNIPROT ID:

Q969H0

### Full Name:

F-box and WD repeat domain containing 7

### Calculated MW:

66 kDa

### Observed MW:

100-110 kDa, 66-75 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

Human, Mouse

### Cited Species:

human, mouse, rat

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

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

## 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: 31346036/PMID: 22864569). K48 autoubiquitination is consistent with maintenance of ubiquitinated FBW7 (Ub-FBW7, 200 kDa)(PMID: 32353058).

## Notable Publications

Author	Pubmed ID	Journal	Application
Chien-Hung Yeh	32907612	Mol Cancer	WB
Feng Qiu	34487730	Exp Cell Res	WB,IHC
Chongyang Li	33126914	J Exp Clin Cancer Res	WB,IHC

## 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

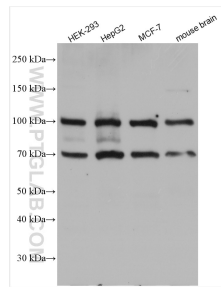
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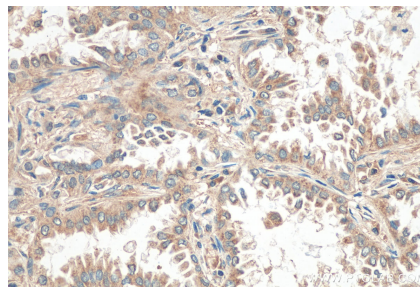
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28424-1-AP (FBXW7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 28424-1-AP (FBXW7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).