

For Research Use Only

# FBXO31 Polyclonal antibody

Catalog Number: 27294-1-AP

1 Publications



## Basic Information

Catalog Number:

27294-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24867

GenBank Accession Number:

BC012748

GeneID (NCBI):

79791

UNIPROT ID:

Q5XUX0

Full Name:

F-box protein 31

Observed MW:

49 kDa, 60-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB : mouse brain tissue,

## Background Information

FBXO31, also known as F-box protein 31, is a substrate recognition protein of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complex. It plays a crucial role in mediating the ubiquitination and subsequent degradation of target proteins through the ubiquitin-proteasome system. In pancreatic cancer, FBXO31 is upregulated and promotes cancer progression by targeting proteins like SIRT2 for degradation (PMID: 38216561). In endometrial cancer, FBXO31 acts as a tumor suppressor by regulating the ubiquitination of OGT (O-GlcNAc transferase), which affects cellular O-GlcNAcylation levels (PMID: 39894887). FBXO31 is a reader of C-terminal amides, which ubiquitylates CTAPs for subsequent proteasomal degradation. A dominant de novo D334N mutation in FBXO31 alters FBXO31 substrate recognition and CTAP clearance, causing some important proteins to be degraded and clinical intellectual impairment or diplegic spastic cerebral (PMID: 39880951).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yang Ma	36803542	BMC Bioinformatics	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

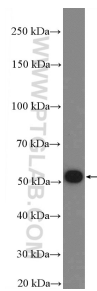
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## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 27294-1-AP (FBXO31 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.