

For Research Use Only

FBXO31 Polyclonal antibody, PBS Only

Catalog Number: 27294-1-PBS



Basic Information

Catalog Number:

27294-1-PBS

Size:

1 mg/ml

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

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human, mouse

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).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

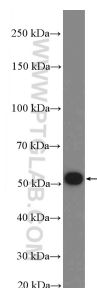
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Selected Validation Data



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. This data was developed using the same antibody clone with 27294-1-PBS in a different storage buffer formulation.