

For Research Use Only

FBXO31 Recombinant monoclonal antibody

Catalog Number: 88050-1-RR



Basic Information

Catalog Number: 88050-1-RR	GenBank Accession Number: BC012748	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 79791	CloneNo.: 260136G1
Source: Rabbit	UNIPROT ID: Q5XUX0	Recommended Dilutions: WB: 1:1000-1:4000
Isotype: IgG	Full Name: F-box protein 31	
Immunogen Catalog Number: AG24867	Observed MW: 45 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : TNF alpha treated HeLa cells,
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 dipleptic spastic cerebral (PMID: 39880951).

Storage

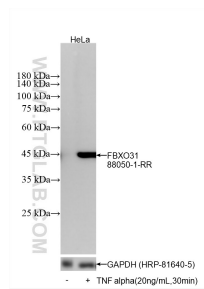
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 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
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88050-1-RR (FBXO31 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.