

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
Source: Rabbit	GeneID (NCBI): 79791	CloneNo.: 260136G1
Isotype: IgG	UNIPROT ID: Q5XUX0	Recommended Dilutions: WB: 1:1000-1:4000
Immunogen Catalog Number: AG24867	Full Name: F-box protein 31	
	Observed MW: 45 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB: TNF alpha treated HeLa cells,
Species Specificity: human, mouse	

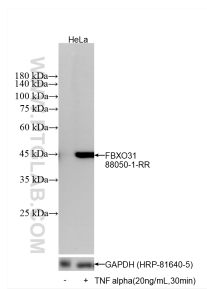
Background Information

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 diplegic 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

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.