

For Research Use Only

FBXO21 Polyclonal antibody, PBS Only

Catalog Number: 17648-1-PBS



Basic Information

Catalog Number: 17648-1-PBS	GenBank Accession Number: BC034045	Purification Method: Antigen affinity purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 23014	
Source: Rabbit	UNIPROT ID: O94952	
Isotype: IgG	Full Name: F-box protein 21	
Immunogen Catalog Number: AG11882	Calculated MW: 537 aa, 63 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications:
WB, IF/ICC, IP, Indirect ELISA

Species Specificity:
human, rat

Background Information

FBXO21 (F-box protein 21) is a member of the F-box protein family and serves as the substrate recognition component of the SCF (Skp1-Cullin-F-box) E3 ubiquitin ligase complex. In AML cells, FBXO21 can ubiquitinate p85 α , a regulatory subunit of the PI3K pathway, leading to its degradation. This reduces PI3K signaling, promotes p85 α dimerization, and activates ERK, thereby influencing cell proliferation and survival. Silencing FBXO21 in AML cells induces differentiation, inhibits tumor progression, and increases sensitivity to chemotherapeutic agents. FBXO21 can regulate immune responses by ubiquitinating and degrading proteins like ASK1 through pro-inflammatory cytokine pathways. It can also ubiquitinate p85 α , affecting CXCL10 expression and modulating immune cell infiltration and anti-tumor activity. In renal cell carcinoma, overexpression of FBXO21 significantly suppresses ccRCC cell proliferation and metastasis both in vitro and in vivo. It may be related to the stromal score and the infiltration levels of immune cells associated with prognosis. Additionally, FBXO21 overexpression increases the expression of key molecules in the CREB pathway.

Storage

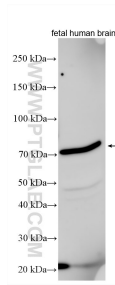
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

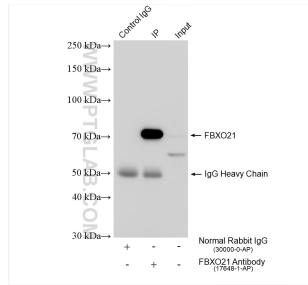
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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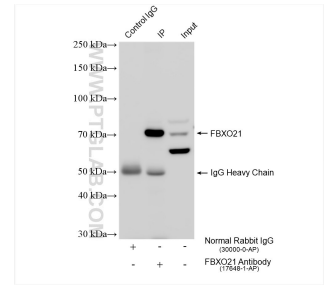
Selected Validation Data



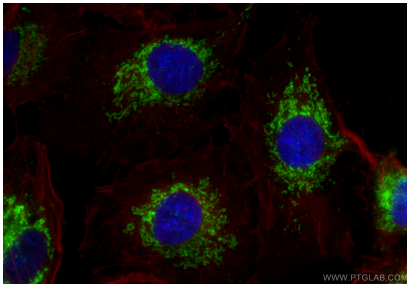
Various lysates were subjected to SDS PAGE followed by western blot with 17648-1-AP (FBXO21 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17648-1-PBS in a different storage buffer formulation.



IP result of anti-FBXO21 (IP:17648-1-AP, 4ug; Detection:17648-1-AP 1:500) with rat brain tissue lysate 1720 ug. This data was developed using the same antibody clone with 17648-1-PBS in a different storage buffer formulation.



IP result of anti-FBXO21 (IP:17648-1-AP, 4ug; Detection:17648-1-AP 1:500) with A549 cells lysate 880 ug. This data was developed using the same antibody clone with 17648-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using FBXO21 antibody (17648-1-AP) at dilution of 1:200 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 17648-1-PBS in a different storage buffer formulation.