



Rabbit Anti-FBXO45 antibody

SL13150R

Product Name:	FBXO45
Chinese Name:	F-box蛋白45抗体
Alias:	F box protein 45; F-box only protein 45; F-box/SPRY domain-containing protein 1; FBSP1 HUMAN; FBX45; fbxo45; hFbxo45.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	31kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FBXO45:110-210/286
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Belonging to the F-box family of proteins, FBXO45 is a 286 amino acid protein that contains one C-terminal F-box domain. F-box proteins are critical components of the SCF (Skp1-CUL-1-F-box protein)-type E3 ubiquitin ligase complex and are involved in substrate recognition and protein recruitment for ubiquitination. They are members of a larger family of proteins that are involved in the regulation of a wide variety of cellular mechanisms, including the cell cycle, the immune response, signaling cascades and

developmental processes. They function by targeting proteins, such as cyclins, cyclin-dependent kinase inhibitors, I β B-? and β -catenin, for degradation by the proteasome after ubiquitination. Via its F-box domain, FBXO45 can directly interact with Skp1 p19 and CUL-1. FBXO45 has been shown to be an estrogen-induced gene.

Function:

Component of E3 ubiquitin ligase complexes. Required for normal neuromuscular synaptogenesis, axon pathfinding and neuronal migration (By similarity). Plays a role in the regulation of neurotransmission at mature neurons (By similarity). May control synaptic activity by controlling UNC13A via ubiquitin dependent pathway (By similarity). Specifically recognizes TP73, promoting its ubiquitination and degradation.

Subunit:

Forms a complex with MYCBP2 and SKP1 but does not appear to form an authentic SCF (SKP1-CUL1-F-box protein) complex (By similarity). Interacts (via B30.2/SPRY domain) with TP73 (via SAM domain); leading to TP73 ubiquitination and degradation by proteasome. Interacts (via SRY domain) with UNC13A; leading to degradation of UNC13A by the proteasome (By similarity).

Subcellular Location:

Cell junction > synapse > postsynaptic cell membrane. Cell junction > synapse > presynaptic cell membrane.

Similarity:

Belongs to the FBXO45/Fsn family.
Contains 1 B30.2/SPRY domain.
Contains 1 F-box domain.

SWISS:

P0C2W1

Gene ID:

200933

Database links:

[Entrez Gene: 200933](#)Human

[Entrez Gene: 268882](#)Mouse

[Omim: 609112](#)Human

[SwissProt: P0C2W1](#)Human

[SwissProt: Q8K3B1](#)Mouse

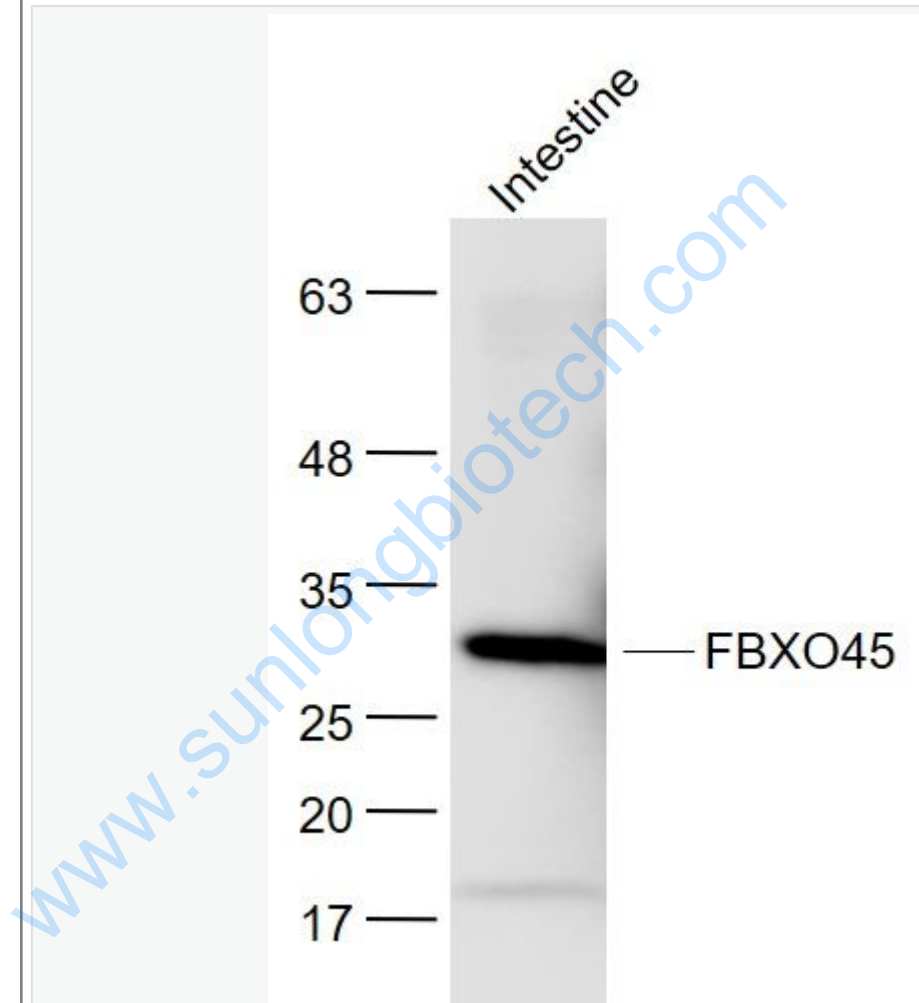
[SwissProt: P0CH38](#)Rat

[Unigene: 169815](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

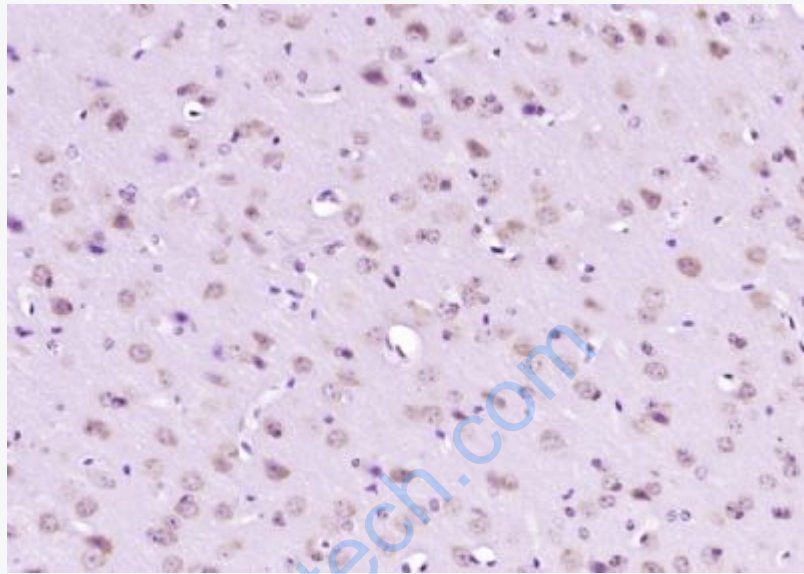
Intestine(Mouse) Lysate at 40 ug

Primary: Anti-FBXO45 (SL13150R) at 1/300 dilution

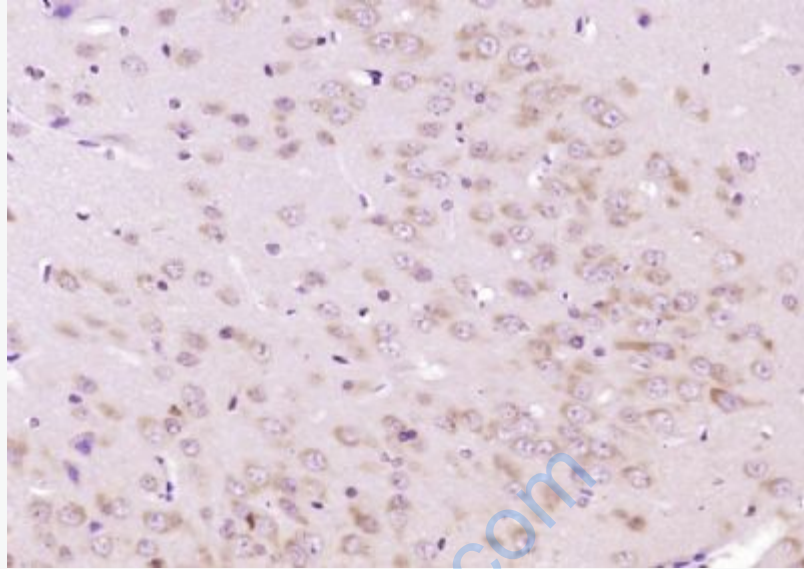
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 31 kD

Observed band size: 31 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FBXO45) Polyclonal Antibody, Unconjugated (SL13150R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FBXO45) Polyclonal Antibody, Unconjugated (SL13150R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.