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FBXO45 Antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI15395

Specification

FBXO45 Antibody - middle region - Product Information

Application	**WB**
Primary Accession	P0C2W1
Other Accession	NM_001105573, NP_001099043
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**31kDa KDa**

FBXO45 Antibody - middle region - Additional Information

Gene ID 200933

Alias Symbol	**Fbx45**

Other Names
F-box/SPRY domain-containing protein 1, F-box only protein 45, hFbxo45, FBXO45, FBX45

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-FBXO45 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
FBXO45 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

FBXO45 Antibody - middle region - Protein Information

Name FBXO45

Synonyms FBX45

Function
Component of E3 ubiquitin ligase complex consisting of FBXO45, MYCBP2 and SKP1 (PubMed:29997255). Functions in substrate recognition but also plays an important role in assembly of the complex (PubMed:29997255). Required for normal neuromuscular synaptogenesis, axon pathfinding and neuronal migration (By similarity).

Regulates neuron migration during brain development through interaction with N- cadherin/CDH2 after secretion via a non-classical mechanism (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. Polyubiquitinates NMNAT2, an adenylyltransferase that acts as an axon maintenance factor, and regulates its stability and degradation by the proteasome (PubMed:29997255). Also acts by ubiquitinating FBXW7 during prolonged mitotic arrest and promotes FBXW7 proteasomal degradation (PubMed:31285543). Induces subsequently an increase in mitotic slippage and prevents mitotic cell death (PubMed:31285543). In response to influenza infection, mediates interferon-lambda receptor IFNLR1 polyubiquitination and degradation through the ubiquitin-proteasome system by docking with its intracellular receptor domain (PubMed:36379255).

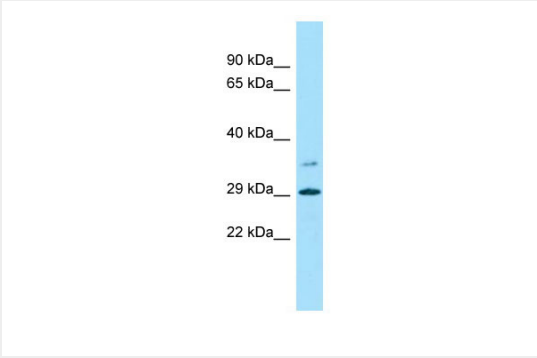
Cellular Location
Secreted. Postsynaptic cell membrane {ECO:0000250|UniProtKB:P0CH38}. Presynaptic cell membrane {ECO:0000250|UniProtKB:P0CH38}. Nucleus. Note=Secreted by a non-classical mechanism.

FBXO45 Antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FBXO45 Antibody - middle region - Images



WB Suggested Anti-FBXO45 Antibody Titration: 1.0 µg/ml
Positive Control: MCF7 Whole Cell

FBXO45 Antibody - middle region - References

Muzny D.M.,et al.Nature 440:1194-1198(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Jin J.,et al.Genes Dev. 18:2573-2580(2004).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).