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# FBXO45 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21457a

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | P0C2W1 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB53750 |
| **Calculated MW** | 30633 |

## Additional Information

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|---|---|
| **Gene ID** | 200933 |
| **Other Names** | F-box/SPRY domain-containing protein 1, F-box only protein 45, hFbxo45, FBXO45, FBX45 |
| **Target/Specificity** | This FBXO45 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 83-115 amino acids from human FBXO45. |
| **Dilution** | WB~~1:2000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | FBXO45 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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.

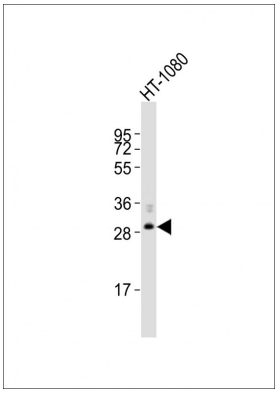
## Background

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 controls synaptic activity by controlling UNC13A via ubiquitin dependent pathway (By similarity). Specifically recognizes TP73, promoting its ubiquitination and degradation.

## 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).


## Images




Anti-FBXO45 Antibody (N-Term)at 1:2000 dilution + HT-1080 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.


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