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FBXO25 Rabbit pAb

Catalog # AP96601

Product Information

Application	WB
Primary Accession	Q8TCJ0
Other Accession	Q8TCJ0
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43313
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FBXO25
Epitope Specificity	55-150/367
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 F-box domain.
SUBUNIT	Part of a SCF (SKP1-cullin-F-box) protein ligase complexconsisting of FBXO25, SKP1, CUL1 and RBX1. Interacts directly withSKP1 and CUL1. Interacts (via C-terminus) with beta-actin (viaN-terminus).
DISEASE	Note=A chromosomal aberration involving FBXO25 is a causeof X-linked mental retardation (XLMR). Translocationt(X;8)(p11.22;p23.3) with SHROOM4.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FBXO25 is a member of the F box protein family which is characterized by an approximately 40 amino acid motif, the F box. The F box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1 cullin F box), which function in phosphorylation dependent ubiquitination. The F box proteins are divided into 3 classes: Fbws containing WD 40 domains, Fbls containing leucine rich repeats, and Fbxs containing either different protein protein interaction modules or no recognizable motifs. FBXO25 belongs to the Fbxs class. There are three named isoforms produced by alternative splicing. FBXO25, also known as FBX25, is a 367 amino acid protein that contains one C-terminal F-box domain and belongs to the Fbx class of the F-box family of proteins. 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 recruitment for ubiquitination. They are members of a larger family of proteins that are involved in the regulation of a wide variety of cellular processes (including the cell cycle, immune response, signaling cascades and developmental processes) through the targeting of proteins, such as cyclins, cyclin-dependent kinase inhibitors, IkB-a and b-catenin, for degradation by the proteasome after ubiquitination. Expressed at high levels in brain, FBXO25 localizes predominantly to the nucleus and directly interacts with Skp1 p19 and CUL-1. Disruption of the gene encoding FBXO25 can lead to X-linked mental retardation.

Additional Information

Gene ID	26260
Other Names	FBX25; 9130015I06Rik; FBX25_BOVIN; FBXO25; FBX25_HUMAN; FBX25_MOUSE; FBX25_RAT; F-box protein 25; F-box only protein 25
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	FBXO25
Synonyms	FBX25
Function	Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex. May play a role in accumulation of expanded polyglutamine (polyQ) protein huntingtin (HTT) (By similarity).
Cellular Location	Nucleus. Note=In the nucleus, associates with a subnuclear dot-like structure. Colocalized with SKP1
Tissue Location	Expressed in all brain tissue observed.

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