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Rabbit Anti-FBXO7 antibody

SL8489R

Product Name:	FBXO7
Chinese Name:	F-box蛋白家族FBXO7抗体
Alias:	F box only protein 7; F box protein 7; F-box protein 7; FBX; FBX07; FBX7; PARK15; PKPS;
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	59kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FBXO7:251-350/522
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:	FBXO7, also known as FBX, FBX7 or PKPS, is a 522 amino acid protein that contains one F-box domain and functions as a component of the SCF complex. Defects in the gene encoding FBXO7 are associated with parkinsonian-pyramidal syndrome (PKPS), a hypokinetic rigid disorder that exhibits Parkinsonian and pyramidal-associated symptoms.The FBXO7 gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. F-box proteins

constitute one of the four subunits of the 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. The protein encoded by this gene belongs to the Fbxs class and it may play a role in regulation of hematopoiesis. Alternatively spliced transcript variants of this gene have been identified with the full-length natures of only some variants being determined.

Function:
Substrate recognition component of a (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Recognizes BIRC2 and DLGAP5.

Subunit:
Part of the SCF (SKP1-CUL1-F-box) E3 ubiquitin-protein ligase complex SCF(FBXO7) formed of CUL1, SKP1, RBX1 and FBXO7. Interacts via its C-terminal proline-rich region with DLGAP5. Interacts with BIRC2. Interacts with CDK6 and promotes its interaction with D-type cyclin.

Subcellular Location:
Cytoplasm. Nucleus

DISEASE:
Defects in FBXO7 are the cause of Parkinson disease type 15 (PARK15) [MIM:260300]; also known as parkinsonian-pyramidal syndrome. A neurodegenerative disorder characterized by parkinsonian and pyramidal signs. Clinical manifestations include tremor, bradykinesia, rigidity, postural instability, spasticity, mainly in the lower limbs, and hyperreflexia.

Similarity:
Contains 1 F-box domain.

SWISS:
Q9Y3I1

Gene ID:
25793

Database links:

Entrez Gene: 25793Human

Omim: 605648Human

SwissProt: Q9Y3I1Human

	Unigene: 5912Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.