

Store at  
-20°C  
  
#57981

## FBXO7 (D8L4E) Rabbit mAb



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	65-72	Rabbit IgG	#Q9Y3I1	25793

### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

FBXO7 (D8L4E) Rabbit mAb recognizes endogenous levels of total FBXO7 protein. FBXO7 (D8L4E) Rabbit mAb detects two bands in human cerebellum, consistent with multiple FBXO7 isoforms generated by alternative splicing.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the N-terminus of human FBXO7 protein.

### Background

F-box only protein 7 (FBXO7) is the substrate recognition component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex. This complex mediates ubiquitination and degradation of targeted proteins. Several "PARK" chromosomal loci have been associated with monogenic forms of PD, including *PARK15* (1). The associated allele for *PARK15* is *FBXO7*, which encodes the FBXO7 protein. Mutations in *FBXO7* cause early-onset autosomal recessive PD, and alterations in FBXO7 normal function, e.g. the protein degradation process, may contribute to PD etiology (2, 3). Additionally, expression of specific FBXO7 isoforms generated by alternative splicing is linked with PD (4).

### Background References

1. Walden, H. and Muqit, M.M. (2017) *Biochem J* 474, 1439-1451.
2. Burchell, V.S. et al. (2013) *Nat Neurosci* 16, 1257-65.
3. Vingill, S. et al. (2016) *EMBO J* 35, 2008-25.
4. Zhao, T. et al. (2011) *PLoS One* 6, e16983.
5. Zhao, T. et al. (2011) *PLoS One* 6, e16983.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse

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