Data Sheet (Cat.No.TMAB-05930)

TargetMol

Anti-FBXO25 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Pig,Rabbit)
Molecular Weight:	Theoretical: 43 kDa. Actual: 43 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Hippocampus (Mouse) Lysate at 40 µg Primary: Anti-FBXO25 (TMAB-05930) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD 2. Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 µg Lane 2: Cerebrum (Rat) Lysate at 40 µg Primary: Anti-FBXO25 (TMAB-05930) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human FBXO25
Antigen Species:	Human
Gene ID:	26260
Uniprot ID:	Q8TCJ0

Research Background

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.

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