Best Tools for immunology Research

KLHL12 Monoclonal Antibody

Catalog No :	YM0400
Reactivity :	Human
Applications :	WB;ELISA
Target :	KLHL12
Gene Name :	KLHL12
Protein Name :	Kelch-like protein 12
Human Gene Id :	59349
Human Swiss Prot No :	Q53G59
Mouse Swiss Prot No :	Q8BZM0
Immunogen :	Purified recombinant fragment of human KLHL12 expressed in E. Coli.
Specificity :	KLHL12 Monoclonal Antibody detects endogenous levels of KLHL12 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	63kD
P References :	1. Exp Cell Res. 2004 Oct 15;300(1):72-83. 2. Gene. 1994 Jan 28;138(1-2):171-4.

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Background :

This gene encodes a member of the KLHL (Kelch-like) family of proteins. This protein has been identified as an autoantigen in the autoimmune disease Sjogren's syndrome and as a potential biomarker in primary biliary cirrhosis. This protein may act as a substrate adaptor of the Cullin-3 ubiquitin ligase complex to promote substrate-specific ubiquitylation. Ubiquitylation by this complex has been shown to regulate the Wnt signaling pathway as well as COPII vesicle coat size. A pseudogene has been identified on chromosome 22. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014],

Function :

domain:The BTB domain is required for interaction with CUL3.,function:Serves as a substrate-specific adapter for the CUL3-based ubiquitin-protein E3 ligase complex. Negatively regulates the Wnt signaling pathway via the targeted ubiquitination and subsequent proteolysis of DVL3.,similarity:Contains 1 BTB (POZ) domain.,similarity:Contains 6 Kelch repeats.,subunit:Component of an ubiquitin-protein E3 ligase complex which includes at least CUL3 and KLHL12. This complex interacts with DVL3 upon activation of the Wnt signaling pathway by WNT3A.,tissue specificity:Highly expressed in testis and at lower levels in the submandibular salivary gland.,

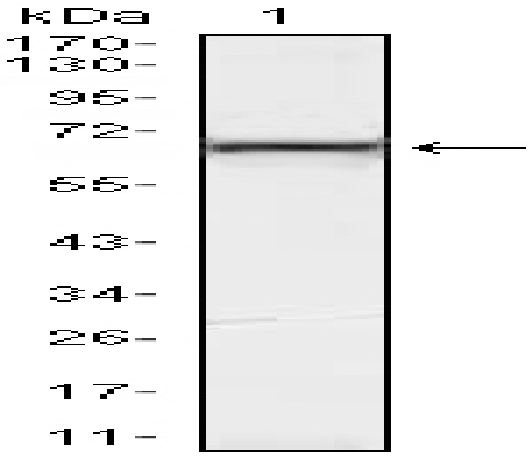
Subcellular Location :

Cytoplasmic vesicle, COPII-coated vesicle .

Expression :

Ubiquitously expressed. Highly expressed in testis and at lower levels in the submandibular salivary gland.

Products Images



Western Blot analysis using KLHL12 Monoclonal Antibody against HeLa (1) cell lysate.