

**KLHL12 Monoclonal Antibody**

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

**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],

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**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.,

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**Subcellular Location :** Cytoplasmic vesicle, COPII-coated vesicle .

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

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**Sort :** 8958

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**No4 :** 1

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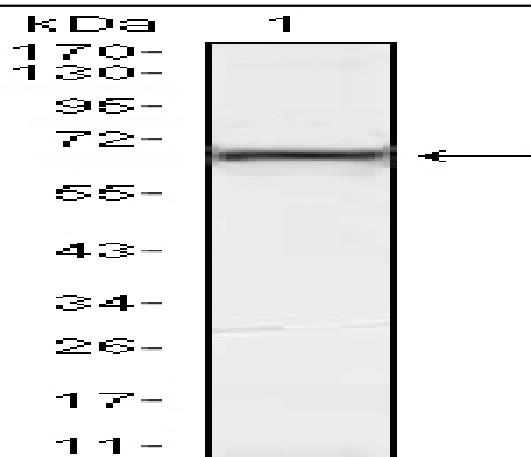
**Host :** Mouse

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**Modifications :** Unmodified

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## Products Images



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