Best Tools for immunology Research

# KLHL12 Monoclonal Antibody

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| **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.<br>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.,

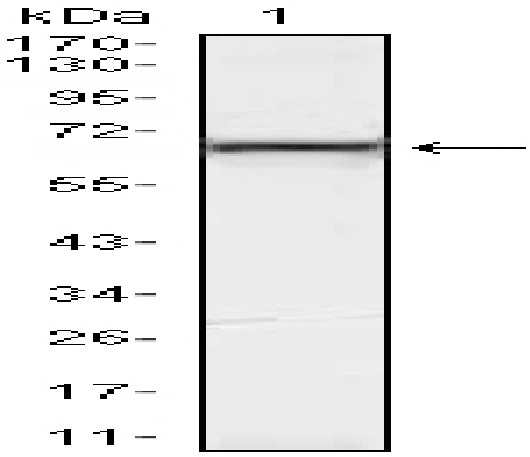
**Subcellular Location :**

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.