

## KLHL13 Monoclonal Antibody

|                              |                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No :</b>          | YM0401                                                                                                                                         |
| <b>Reactivity :</b>          | Human                                                                                                                                          |
| <b>Applications :</b>        | WB;IHC;IF;FCM;ELISA                                                                                                                            |
| <b>Target :</b>              | KLHL13                                                                                                                                         |
| <b>Fields :</b>              | >>Ubiquitin mediated proteolysis                                                                                                               |
| <b>Gene Name :</b>           | KLHL13                                                                                                                                         |
| <b>Protein Name :</b>        | Kelch-like protein 13                                                                                                                          |
| <b>Human Gene Id :</b>       | 90293                                                                                                                                          |
| <b>Human Swiss Prot No :</b> | Q9P2N7                                                                                                                                         |
| <b>Mouse Swiss Prot No :</b> | Q80TF4                                                                                                                                         |
| <b>Immunogen :</b>           | Purified recombinant fragment of human KLHL13 expressed in E. Coli.                                                                            |
| <b>Specificity :</b>         | KLHL13 Monoclonal Antibody detects endogenous levels of KLHL13 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. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. 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>     | 74kD                                                                                                                                           |

**Cell Pathway :** Ubiquitin mediated proteolysis;

**P References :**

1. DNA Res. 2000 Feb 28;7(1):65-73.
2. Genome Res. 2004 Sep;14(9):1711-8.
3. Cell. 2009 Jul 23;138(2):389-403.

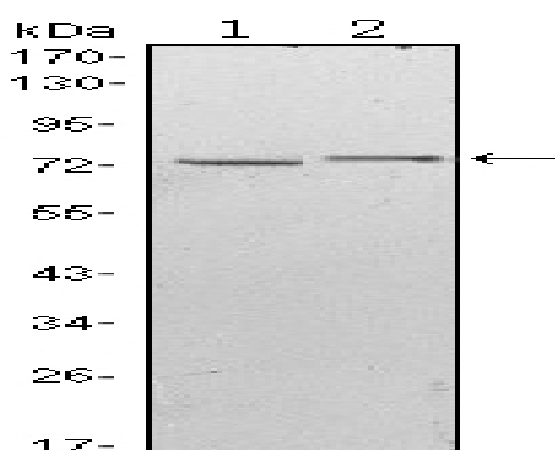
**Background :** This gene encodes a BTB and kelch domain containing protein and belongs to the kelch repeat domain containing superfamily of proteins. The encoded protein functions as an adaptor protein that complexes with Cullin 3 and other proteins to form the Cullin 3-based E3 ubiquitin-protein ligase complex. This complex is necessary for proper chromosome segregation and completion of cytokinesis. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010],

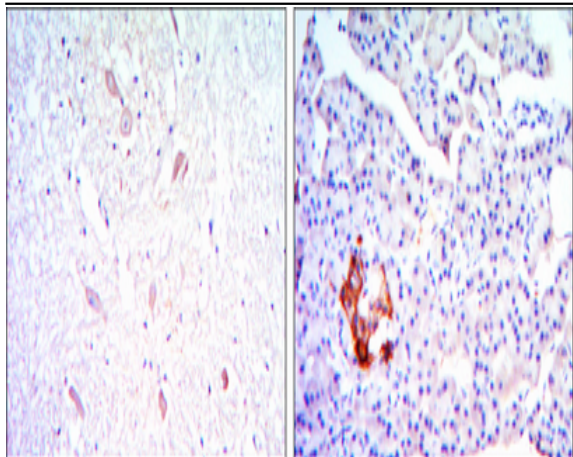
**Function :** function:Substrate-specific adapter for a CUL3-based E3 ubiquitin-protein ligase complex. Within this complex, controls the dynamic behavior of AURKB on mitotic chromosomes and thereby coordinates faithful mitotic progression and completion of cytokinesis.,pathway:Protein modification; protein ubiquitination.,similarity:Contains 1 BACK (BTB/Kelch associated) domain.,similarity:Contains 1 BTB (POZ) domain.,similarity:Contains 6 Kelch repeats.,subunit:Forms a complex with CUL3 and KLHL9. Interacts with AURKB. Interacts with CUL3.,

**Subcellular Location :** midbody,Cul3-RING ubiquitin ligase complex,

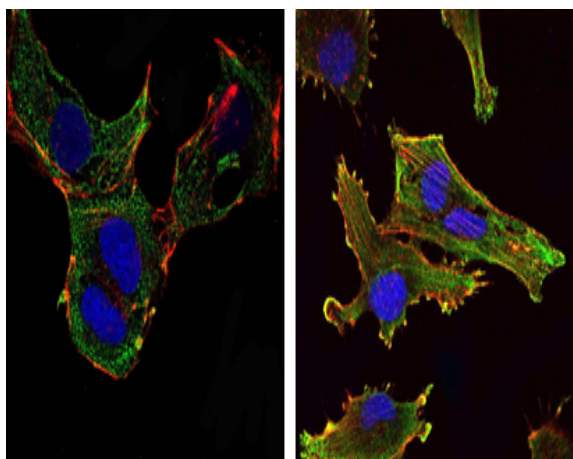
**Expression :** Brain,Testis,Thalamus,Whole embryo,

## Products Images

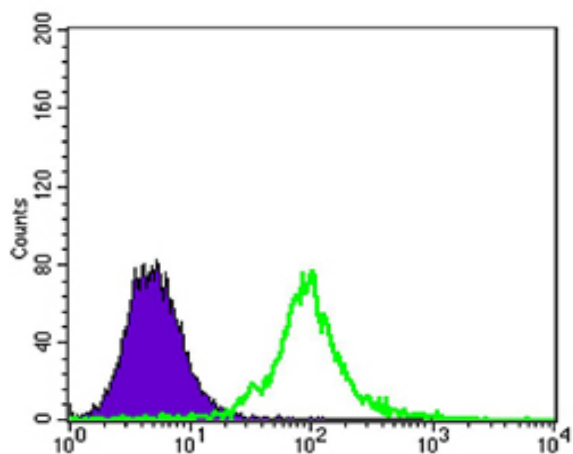




Immunohistochemistry analysis of paraffin-embedded brain tissues (left) and pancreas tissues (right) with DAB staining using KLHL13 Monoclonal Antibody.



Immunofluorescence analysis of NTERA-2 cells (left) and U251 (right) cells using KLHL13 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of 3T3/L1 cells using KLHL13 Monoclonal Antibody (green) and negative control (purple).