

**Product Name: KD-Validated ILVBL Mouse Monoclonal Antibody****Catalog #: KVA00288**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Mouse                                                                       |
| <b>Application</b>  | WB,FCM                                                                      |
| <b>Reactivity</b>   | Human,Rat                                                                   |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Mouse IgG2b                                                                 |
| <b>Clonality</b>    | Mouse mAb                                                                   |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                    |
|-------------------------|------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:500-1:2,500; FC 1:200-1:2,000 |
| <b>Molecular Weight</b> | Calculated MW: 67.9kDa             |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | HACL2                                                                                                                                                                                                                                                                                                                      |
| <b>Alternative Names</b> | HACL2; ILVBL; IlvB Acetolactate Synthase Like; AHAS; HACL1L; 209L8; ILV2H; IlvB (Bacterial Acetolactate Synthase)-Like; Acetolactate Synthase-Like Protein; 2-Hydroxyacyl-CoA Lyase 1 Like; Acetolactate Synthase Homolog; 2-Hydroxyacyl-CoA Lyase 2; IlvB-Like Protein; FLJ39061; MGC19535; MGC1269; EC 4.1.2.-; EC 2.2.1 |
| <b>Gene ID</b>           | 10994.0                                                                                                                                                                                                                                                                                                                    |
| <b>SwissProt ID</b>      | A1LOT0                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>         | Recombinant protein of human ILVBL                                                                                                                                                                                                                                                                                         |

**Background**

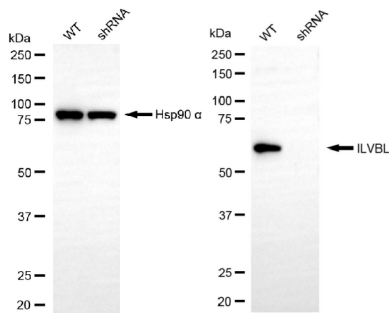
The protein encoded by this gene shares similarity with several thiamine pyrophosphate-binding proteins identified in bacteria,

yeast, and plants. The highest degree of similarity is found with bacterial acetolactate synthases (AHAS), which are enzymes that catalyze the first step in branched-chain amino acid biosynthesis. [provided by RefSeq, Jul 2008]

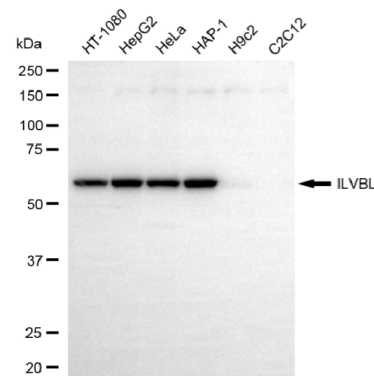
## Research Area

Cell Biology

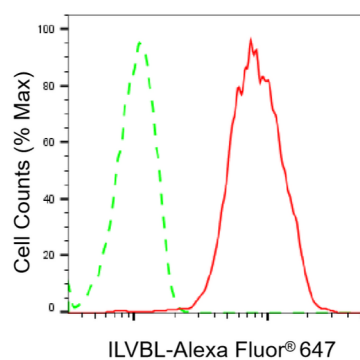
## Image Data



Western blotting analysis using ILVBL antibody (KVA00288). ILVBL expression in wild-type (WT) and ILVBL shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with ILVBL antibody (KVA00288, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using ILVBL antibody (KVA00288). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ILVBL antibody (KVA00288, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Flow cytometric analysis of ILVBL expression in HepG2 cells using ILVBL antibody (KVA00288, 1:2,000). Green, isotype control; red, ILVBL.