

ILVBL Rabbit pAb

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Catalog # AP54341

Product Information

Application	WB
Primary Accession	A1LOTO
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67868
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ILVBL
Epitope Specificity	301-400/632
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ILVBL is a 632 amino acid single-pass membrane protein that belongs to the TPP enzyme family. Expressed in the majority of tissues, ILVBL has the highest level of expression in heart, pancreas and placenta. ILVBL is highly homologous to several bacterial enzymes, including the B isozyme of the large catalytic subunit of E. coli acetohydroxy-acid synthase (AHAS) and the oxalyl-CoA decarboxylase of O. formigenes, that utilize thiamine pyrophosphate as a cofactor. ILVBL binds one magnesium ion and one thiamine pyrophosphate per subunit, and may catalyze the initial step in branched-chain amino acid biosynthesis. The gene encoding ILVBL maps to human chromosome 19p13.12 and mouse chromosome 10 C1.

Additional Information

Gene ID	10994
Other Names	2-hydroxyacyl-CoA lyase 2, 4.1.2.-, Acetolactate synthase-like protein, IlvB-like protein, HACL2 {ECO:0000303 PubMed:28289220, ECO:0000312 HGNC:HGNC:6041}
Dilution	WB=1:500-2000,Flow-Cyt=3ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

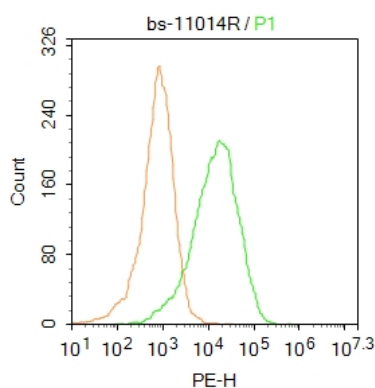
Protein Information

Name	HACL2 {ECO:0000303 PubMed:28289220, ECO:0000312 HGNC:HGNC:6041}
Function	Endoplasmic reticulum 2-OH acyl-CoA lyase involved in the cleavage (C1 removal) reaction in the fatty acid alpha-oxydation in a thiamine pyrophosphate (TPP)-dependent manner. Involved in the phytosphingosine degradation pathway.
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein
Tissue Location	Expressed in all tissues tested, with highest expression in heart, pancreas and placenta

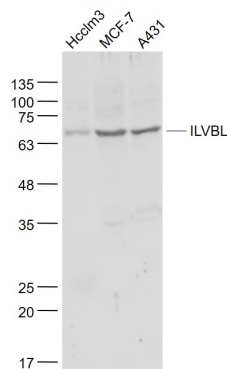
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Images

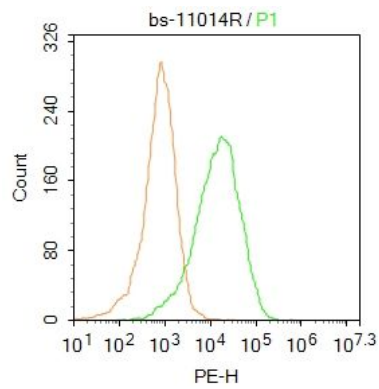


Blank control: HepG2.
Primary Antibody (green line): Rabbit Anti-ILVBL antibody (AP54341)
Dilution: 1 µg /10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1 µg /test.
Protocol
The cells then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Sample:
Hcclm3(Human) Cell Lysate at 30 ug
MCF-7(Human) Cell Lysate at 30 ug
A431(Human) Cell Lysate at 30 ug
Primary: Anti- ILVBL (AP54341) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 68 kD
Observed band size: 68 kD

Blank control: HepG2.
Primary Antibody (green line): Rabbit Anti-ILVBL antibody (AP54341)
Dilution: 1 µg /10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG .



Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 µg /test.

Protocol

The cells then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.