10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ILVBL Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54341

Specification

ILVBL Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	A1L0T0
Reactivity	**Rat, Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**68 KDa**
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.**
SIMILARITY	**Belongs to the TPP enzyme family.**
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.

ILVBL Polyclonal Antibody - Additional Information

Gene ID 10994

Other Names
2-hydroxyacyl-CoA lyase 2, 4.1.2.-, Acetolactate synthase-like protein, IlvB-like protein, ILVBL (HGNC:6041)

Target/Specificity
Expressed in all tissues tested, with highest expression in heart, pancreas and placenta.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

ILVBL Polyclonal Antibody - Protein Information

Name ILVBL (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

ILVBL Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ILVBL Polyclonal Antibody - Images

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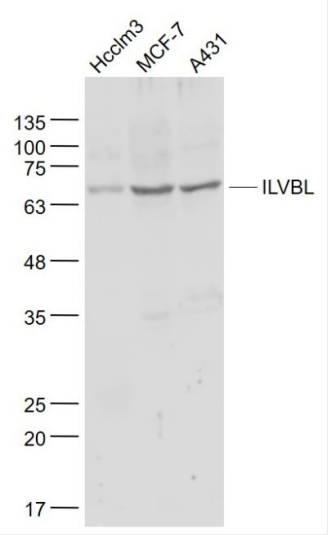
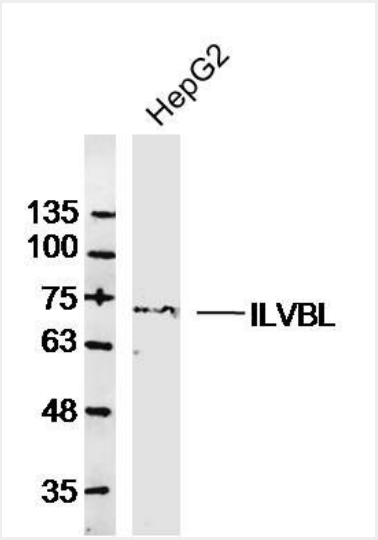


Sample:
Hcclm3(Human) Cell Lysate at 30 ug
MCF-7(Human) Cell Lysate at 30 ug
A431(Human) Cell Lysate at 30 ug
Primary: Anti- ILVBL (bs-11014R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 68 kD
Observed band size: 68 kD



Sample: HepG2 Cell (Human) Lysate at 30 ug
Primary: Anti-ILVBL (bs-11014R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 68kD
Observed band size: 68kD

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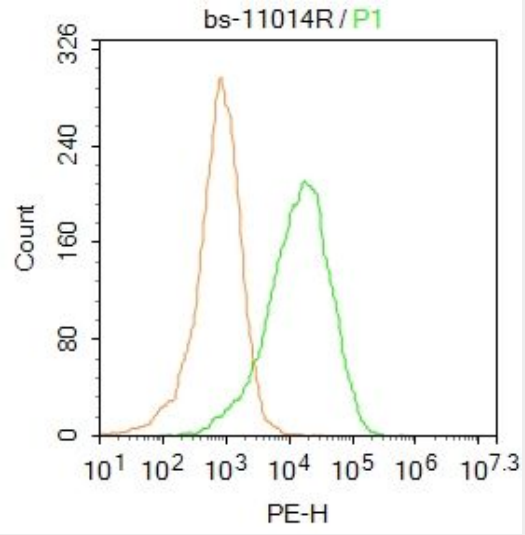

Blank control: HepG2.
Primary Antibody (green line): Rabbit Anti-ILVBL antibody (bs-11014R)
Dilution: 1 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1 µg /test.
Protocol
The cells then incubated in 5%BSA to block non-specific 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.