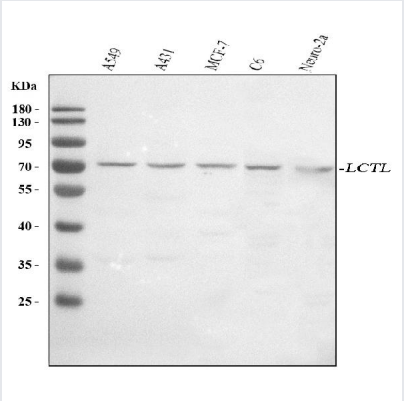
LCTL Antibody – Rabbit Polyclonal

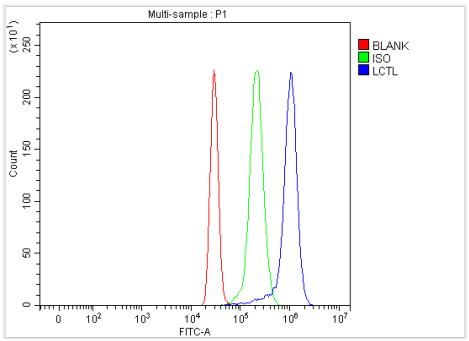
PRODUCT OVERVIEW

Product Name	LCTL, Polyclonal Antibody
Full Product Name	Anti-LCTL Antibody Picoband
Product Gene Name	anti-LCTL antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	65,088 Da
3D Structure	ModBase 3D Structure for Q6UWM7
Immunogen	E coli-derived human LCTL recombinant protein (Position: D67-Q537).
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Product Categories/Family for anti-LCTL antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-LCTL antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-LCTL antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml

Related Product Information for anti-LCTL antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-LCTL antibody	1. Hartz, P. A. Personal Communication. Baltimore, Md. 08/01/2016.2. Ito, S., Fujimori, T., Hayashizaki, Y., Nabeshima, Y. Identification of a novel mouse membrane-bound family 1 glycosidase-like protein, which carries an atypical active site structure. Biochim. Biophys. Acta 1576: 341-345, 2002.
Other Notes	Small volumes of anti-LCTL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LCTL purchase	MBS1759419 is an antibody targeting LCTL. Also known as Anti-LCTL Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-LCTL antibody
Figure 1. Western blot analysis of LCTL using anti-LCTL antibody (MBS1759419).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human A549 whole cell lysates,Lane 2: human A431 whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: rat C6 whole cell lysates,Lane 5: mouse Neuro-2a whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LCTL antigen affinity purified polyclonal antibody (#MBS1759419) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for LCTL at approximately 70 kDa. The expected band size for LCTL is at 65 kDa.



Flow Cytometry (FC/FACS) of anti-LCTL antibody
Figure 2. Flow Cytometry analysis of HepG2 cells using anti-LCTL antibody (MBS1759419).Overlay histogram showing HepG2 cells stained with MBS1759419 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LCTL Antibody (MBS1759419, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LCTL. It may not necessarily be applicable to this product.

NCBI GI #	515870839
NCBI GeneID	197021
NCBI Accession #	NP_001265491.1
UniProt Primary Accession #	Q6UWM7
UniProt Secondary Accession #	B3KQY0
UniProt Related Accession #	Q6UWM7
GenBank Nucleotide #	NM_001278562.1
NCBI Official Full Name	lactase-like protein isoform 2
NCBI Official Synonym Full Names	lactase-like
NCBI Official Symbol	LCTL

NCBI Official Synonym Symbols	KLG; KLPH
UniProt Protein Name	Lactase-like protein
UniProt Synonym Protein Names	Klotho/lactase-phlorizin hydrolase-related protein
Protein Family	Lactase-like protein
UniProt Gene Name	LCTL
UniProt Synonym Gene Names	KLPH; UNQ3022/PRO9820
UniProt Entry Name	LCTL_HUMAN
NCBI Protein Information	lactase-like protein; klotho gamma; KL lactase phlorizin hydrolase; klotho/lactase-phlorizin hydrolase-related protein
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