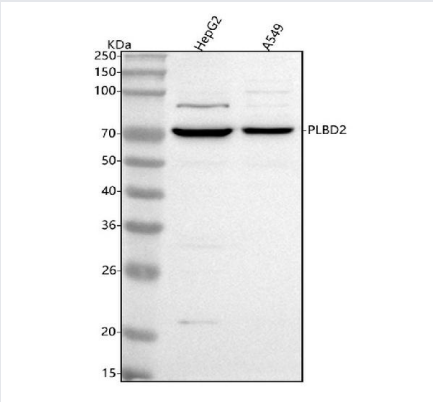
PLBD2 Antibody – Rabbit Polyclonal

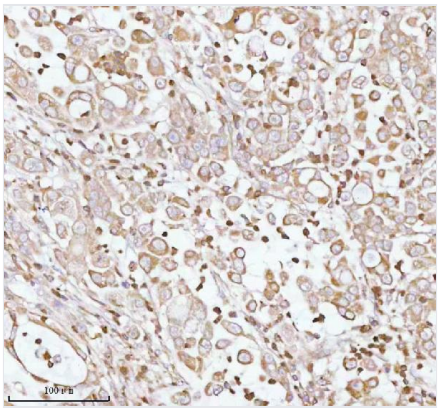
PRODUCT OVERVIEW

Product Name	PLBD2, Polyclonal Antibody
Full Product Name	Anti-PLBD2 Antibody Picoband
Product Gene Name	anti-PLBD2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
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	61,885 Da
3D Structure	ModBase 3D Structure for Q8NHP8
Immunogen	E coli-derived human PLBD2 recombinant protein (Position: Q108-Q525). Human PLBD2 shares 88% and 87.1% amino acid (aa) sequence identity with mouse and rat PLBD2, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-PLBD2 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PLBD2 antibody	ELISA (EIA), Flow Cytometry (FC/FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Western Blot (WB)
Application Notes for anti-PLBD2 antibody	WB: 0.25-0.5ug/ml, Human IHC: 2-5ug/ml, Human ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug /1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PLBD2 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-PLBD2 antibody	1. Jensen, A. G., Chemali, M., Chapel, A., Kieffer-Jaquinod, S., Jadot, M., Garin, J., Journet, A. Biochemical characterization and lysosomal localization of the mannose-6-phosphate protein p76 (hypothetical protein LOC196463). Biochem. J. 402: 449-58, 2007.
Other Notes	Small volumes of anti-PLBD2 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 PLBD2 purchase	MBS1759307 is an antibody targeting PLBD2. Also known as Anti-PLBD2 Antibody Picoband. Reactive in Human. Host: Rabbit.



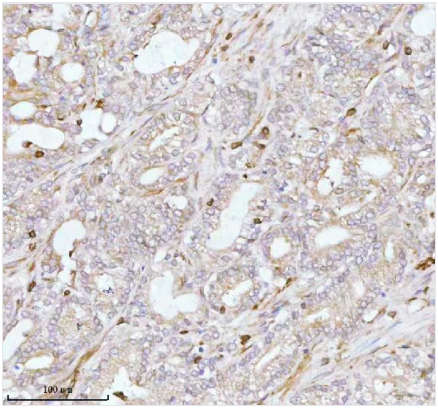
Western Blot (WB) of anti-PLBD2 antibody

Figure 1. Western blot analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).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 HepG2 whole cell lysates,Lane 2: human A549 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-PLBD2 antigen affinity purified polyclonal antibody (#MBS1759307) 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 PLBD2 at approximately 75 kDa. The expected band size for PLBD2 is at 66 kDa.



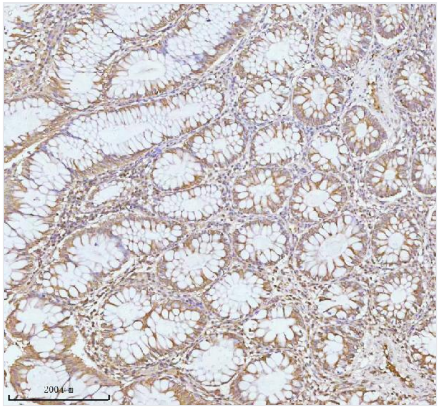
Immunohistochemistry (IHC) of anti-PLBD2 antibody

Figure 2. IHC analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).PLBD2 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLBD2 Antibody (MBS1759307) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



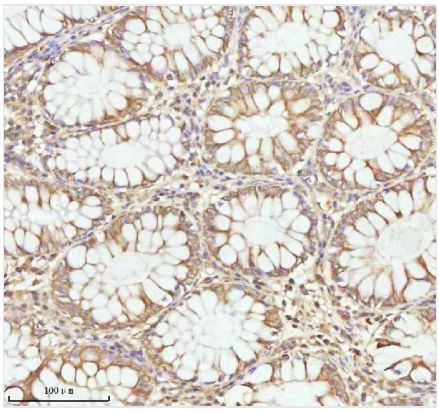
Immunohistochemistry (IHC) of anti-PLBD2 antibody

Figure 3. IHC analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).PLBD2 was detected in a paraffin-embedded section of human prostate adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLBD2 Antibody (MBS1759307) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.

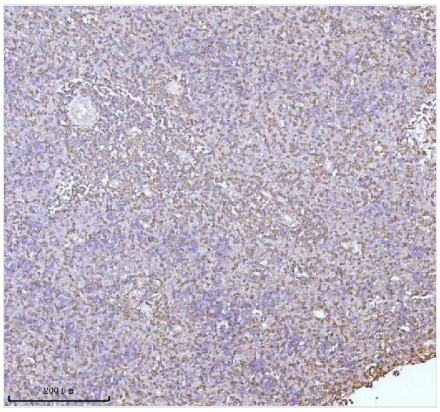


Immunohistochemistry (IHC) of anti-PLBD2 antibody

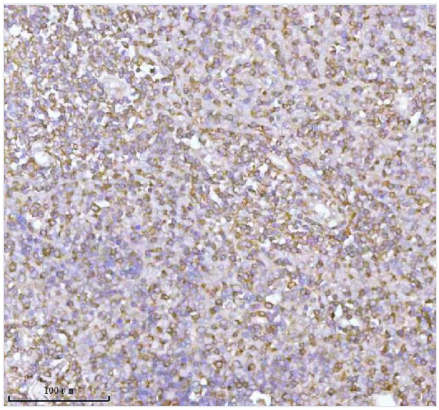
Figure 4. IHC analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).PLBD2 was detected in a paraffin-embedded section of human rectum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLBD2 Antibody (MBS1759307) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



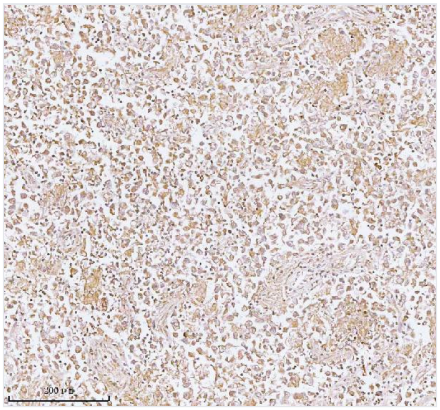
Immunohistochemistry (IHC) of anti-PLBD2 antibody
Figure 5. IHC analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).PLBD2 was detected in a paraffin-embedded section of human rectum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLBD2 Antibody (MBS1759307) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-PLBD2 antibody
Figure 6. IHC analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).PLBD2 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLBD2 Antibody (MBS1759307) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-PLBD2 antibody
Figure 7. IHC analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).PLBD2 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLBD2 Antibody (MBS1759307) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-PLBD2 antibody
Figure 8. IHC analysis of PLBD2 using anti-PLBD2 antibody (MBS1759307).PLBD2 was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PLBD2 Antibody (MBS1759307) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLBD2. It may not necessarily be applicable to this product.

NCBI GI #	229093316
NCBI GeneID	196463
NCBI Accession #	NP_775813.2
UniProt Primary Accession #	Q8NHP8
UniProt Secondary Accession #	F5H5E2
UniProt Related Accession #	Q8NHP8
GenBank Nucleotide #	NM_173542.3
NCBI Official Full Name	putative phospholipase B-like 2 isoform 1

NCBI Official Synonym Full Names	phospholipase B domain containing 2
NCBI Official Symbol	PLBD2
NCBI Official Synonym Symbols	P76
UniProt Protein Name	Putative phospholipase B-like 2
UniProt Synonym Protein Names	76 kDa protein; p76; LAMA-like protein 2; Lamina ancestor homolog 2; Phospholipase B domain-containing protein 2Cleaved into the following 2 chains:Putative phospholipase B-like 2 32 kDa form; Putative phospholipase B-like 2 45 kDa form
Protein Family	Putative phospholipase
UniProt Gene Name	PLBD2
UniProt Synonym Gene Names	p76
UniProt Entry Name	PLBL2_HUMAN
NCBI Protein Information	putative phospholipase B-like 2; PLB homolog 2; 76 kDa protein; LAMA-like protein 2; lamina ancestor homolog 2; phospholipase B-like 2 32 kDa form; phospholipase B-like 2 45 kDa form; phospholipase B domain-containing protein 2; mannose-6-phosphate protei
UniProt Comments for PLBD2	PLBL2: Putative phospholipase. Belongs to the phospholipase B-like family. Protein type: Phospholipase; EC 3.1.1.- Chromosomal Location of Human Ortholog: 12q24.13 Cellular Component: lysosomal lumen Molecular Function: hydrolase activity Biological Process: lipid catabolic process
Research Articles on PLBD2	**1.** describe the identification of p76 by MS and we analyse several of its biochemical characteristics
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