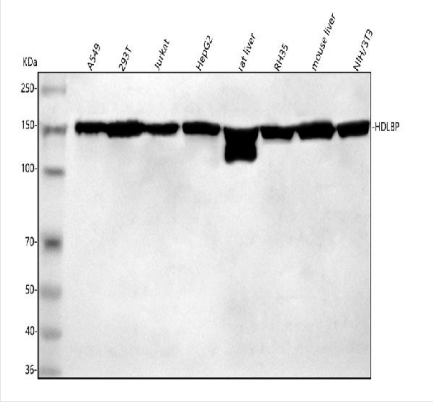
HDLBP Antibody – Rabbit Polyclonal

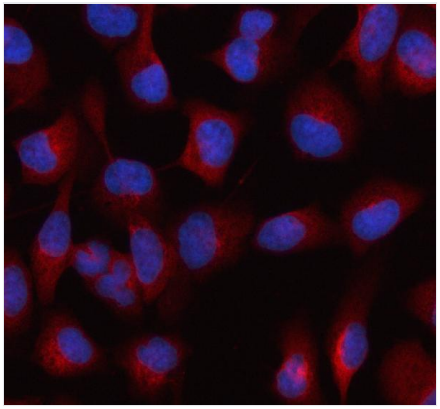
PRODUCT OVERVIEW

Product Name	HDLBP, Polyclonal Antibody
Full Product Name	Anti-HDLBP Antibody Picoband
Product Gene Name	anti-HDLBP 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	137,987 Da
OMIM	142695
3D Structure	ModBase 3D Structure for Q00341
Immunogen	E coli-derived human HDLBP recombinant protein (Position: H15-A1231). Human HDLBP shares 97.9% and 97.6% amino acid (aa) sequence identity with mouse and rat HDLBP, respectively.
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-HDLBP 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-HDLBP antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)

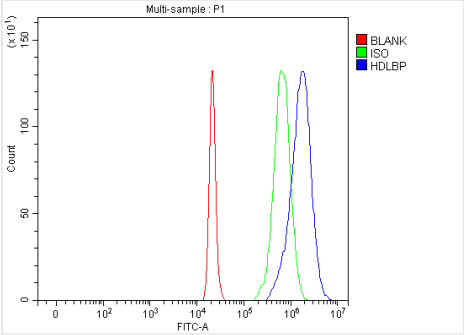
Application Notes for anti-HDLBP antibody	WB: 0.1-0.25ug/ml, Human, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-HDLBP antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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-HDLBP antibody	1. Kugler, S., Plenz, G., Muller, P. K. Two additional 5-prime exons in the human vigilin gene distinguish it from the chicken gene and provide the structural basis for differential routes of gene expression. Europ. J. Biochem. 238: 410-417, 1996. 2. LeBoeuf, R. C., Xia, Y.-R., Oram, J. F., Lusis, A. J. Mapping of the gene for high-density lipoprotein binding protein (Hdlbp) to proximal mouse chromosome 1. Genomics 23: 296-298, 1994. 3. Plenz, G., Kugler, S., Schnittger, S., Rieder, H., Fonatsch, C., Muller, P. K. The human vigilin gene: identification, chromosomal localization and expression pattern. Hum. Genet. 93: 575-582, 1994.
Other Notes	Small volumes of anti-HDLBP 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 HDLBP purchase	MBS1758754 is an antibody targeting HDLBP. Also known as Anti-HDLBP Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-HDLBP antibody
Figure 1. Western blot analysis of HDLBP using anti-HDLBP antibody (MBS1758754).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 293T whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: rat RH35 whole cell lysates,Lane 7: mouse liver tissue lysates,Lane 8: mouse NIH/3T3 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-HDLBP antigen affinity purified polyclonal antibody (#MBS1758754) at 0.25ug/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 HDLBP at approximately 150 kDa. The expected band size for HDLBP is at 141 kDa.



Immunofluorescence (IF) of anti-HDLBP antibody
Figure 2. IF analysis of HDLBP using anti-HDLBP antibody (MBS1758754).HDLBP was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-HDLBP Antibody (MBS1758754) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry (FC/FACS) of anti-HDLBP antibody
Figure 3. Flow Cytometry analysis of 293T cells using anti-HDLBP antibody (MBS1758754).Overlay histogram showing 293T cells stained with MBS1758754 (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-HDLBP Antibody (MBS1758754, 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 HDLBP. It may not necessarily be applicable to this product.

NCBI GI #	345199283
NCBI GeneID	3069
NCBI Accession #	NP_001230829
UniProt Primary Accession #	Q00341
UniProt Secondary Accession #	Q53QU2; Q9UCY3; B4DTQ2; E7EM71
UniProt Related Accession #	Q00341
GenBank Nucleotide #	NM_005336
NCBI Official Full Name	vigilin isoform b
NCBI Official Synonym Full Names	high density lipoprotein binding protein
NCBI Official Symbol	HDLBP
NCBI Official Synonym Symbols	HBP; VGL; PRO2900
UniProt Protein Name	Vigilin
UniProt Synonym Protein Names	High density lipoprotein-binding protein; HDL-binding protein
Protein Family	Vigilin
UniProt Gene Name	HDLBP
UniProt Synonym Gene Names	HBP; VGL; HDL-binding protein
UniProt Entry Name	VIGLN_HUMAN
NCBI Protein Information	vigilin; HDL-binding protein; high density lipoprotein-binding protein
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