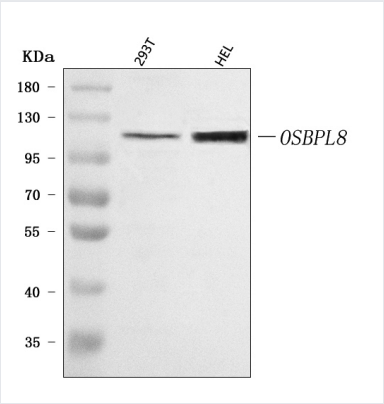
OSBPL8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

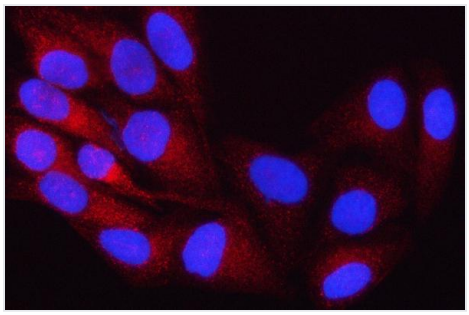
Product Name	OSBPL8, Polyclonal Antibody
Full Product Name	Anti-OSBPL8 Antibody Picoband
Product Gene Name	anti-OSBPL8 antibody
Product Synonym Names	Disintegrin and metalloproteinase domain-containing protein 2; ubiquitin specific peptidase 44; Ubiquitin carboxyl-terminal hydrolase 44; Deubiquitinating enzyme 44; Ubiquitin thioesterase 44; Ubiquitin-specific-processing protease 44; USP44
Clonality	Polyclonal
Isotype	Rabbit IgG
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.
Specificity	Expressed in testis. Expressed at high levels in T-cell acute lymphoblastic leukemia.
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	99,714 Da
3D Structure	ModBase 3D Structure for Q9BZF1
Immunogen	E coli-derived human OSBPL8 recombinant protein (Position: D33-K889).
Subcellular Localization	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	Deubiquitinase that plays a key regulatory role in the spindle assembly checkpoint or mitotic checkpoint by preventing premature anaphase onset. Acts by specifically mediating deubiquitination of CDC20, a negative regulator of the anaphase promoting complex/cyclosome (APC/C). Deubiquitination of CDC20 leads to stabilize the MAD2L1-CDC20-APC/C ternary complex (also named mitotic checkpoint complex), thereby preventing premature activation of the APC/C. Promotes association of MAD2L1 with CDC20 and reinforces the spindle assembly checkpoint. Acts as a negative regulator of histone H2B (H2BK120ub1) ubiquitination.
Product Categories/Family for anti-OSBPL8 antibody	Primary Antibodies; Cancer; Cell Biology; Cytoskeleton/ECM; ECM Enzymes; Extracellular Matrix; Invasion/Microenvironment; Metalloprotease; Proteolysis/Ubiquitin; Proteolytic Enzymes; Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-OSBPL8 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-OSBPL8 antibody	WB: 0.25-0.5ug/ml, Human 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-OSBPL8 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-OSBPL8 antibody	1. Chung, J., Torta, F., Masai, K., Lucast, L., Czapla, H., Tanner, L. B., Narayanaswamy, P., Wenk, M. R., Nakatsu, F., De Camilli, P. PI4P/phosphatidylserine countertransport at ORP5- and ORP8-mediated ER-plasma membrane contacts. Science 349: 428-432, 2015. 2. Jaworski, C. J., Moreira, E., Li, A., Lee, R., Rodriguez, I. R. A family of 12 human genes containing oxysterol-binding domains. Genomics 78: 185-196, 2001.3. Lehto, M., Laitinen, S., Chinetti, G., Johansson, M., Ehnholm, C., Staels, B., Ikonen, E., Olkkonen, V. M. The OSBP-related protein family in humans. J. Lipid Res. 42: 1203-1213, 2001.
Other Notes	Small volumes of anti-OSBPL8 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 OSBPL8 purchase	MBS1758922 is an antibody targeting OSBPL8. Also known as Anti-OSBPL8 Antibody Picoband. Reactive in Human. Host: Rabbit.



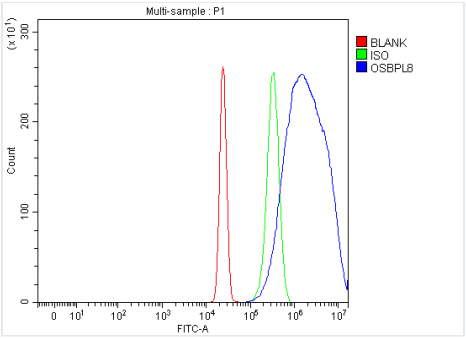
Western Blot (WB) of anti-OSBPL8 antibody

Figure 1. Western blot analysis of OSBPL8 using anti-OSBPL8 antibody (MBS1758922).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 293T whole cell lysates,Lane 2: human HEL 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-OSBPL8 antigen affinity purified polyclonal antibody (#MBS1758922) 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 OSBPL8 at approximately 120 kDa. The expected band size for OSBPL8 is at 101 kDa.



Immunofluorescence (IF) of anti-OSBPL8 antibody

Figure 2. IF analysis of OSBPL8 using anti-OSBPL8 antibody (MBS1758922).OSBPL8 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-OSBPL8 Antibody (MBS1758922) 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-OSBPL8 antibody
Figure 3. Flow Cytometry analysis of HepG2 cells using anti-OSBPL8 antibody (MBS1758922).Overlay histogram showing HepG2 cells stained with MBS1758922 (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-OSBPL8 Antibody (MBS1758922, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OSBPL8. It may not necessarily be applicable to this product.

NCBI GI #	985567518
NCBI GeneID	114882
NCBI Accession #	NP_001306582.1
UniProt Primary Accession #	Q9BZF1
UniProt Secondary Accession #	Q52LQ3; Q68D75; Q8WXP8; Q9P277; A8K1T2; E9PE66; E9PE68
UniProt Related Accession #	Q9BZF1
GenBank Nucleotide #	NM_001319653.1
NCBI Official Full Name	oxysterol-binding protein-related protein 8 isoform c
NCBI Official Synonym Full Names	oxysterol binding protein like 8
NCBI Official Symbol	OSBPL8
NCBI Official Synonym Symbols	ORP8; MST120; OSBP10; MSTP120
UniProt Protein Name	Oxysterol-binding protein-related protein 8
Protein Family	Oxysterol-binding protein-related protein
UniProt Gene Name	OSBPL8
UniProt Synonym Gene Names	; ORP-8; OSBP-related protein 8
NCBI Protein Information	oxysterol-binding protein-related protein 8
NCBI Summary for OSBPL8	This gene encodes a member of a family of proteins containing an N-terminal pleckstrin homology domain and a highly conserved C-terminal oxysterol-binding protein-like sterol-binding domain. It binds mutliple lipid-containing molecules, including phosphatidylserine, phosphatidylinositol 4-phosphate (PI4P) and oxysterol, and promotes their exchange between the endoplasmic reticulum and the plasma membrane. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

UniProt Comments for OSBPL8	Lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane: specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds phosphatidylserine and PI4P in a mutually exclusive manner (PubMed:26206935). Binds oxysterol, 25-hydroxycholesterol and cholesterol (PubMed:17428193, PubMed:17991739, PubMed:21698267).
Research Articles on OSBPL8	**1.** Examination of a series of deletion constructs demonstrated that both the N-terminal polybasic region and the PH domain are required for proper targeting of the short splice variant ORP8S to the PM-ER contact site in Chinese hamster ovary cells.
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