LY96 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LY96, Polyclonal Antibody
Full Product Name	LY96, CT (LY96, ESOP1, MD2, Lymphocyte antigen 96, ESOP-1, Protein MD-2) (MaxLight 405)
Product Gene Name	anti-LY96 antibody
Product Synonym Names	LY96; ESOP1; MD2; Lymphocyte antigen 96; ESOP-1; Protein MD-2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	605243
3D Structure	ModBase 3D Structure for Q9Y6Y9
Immunogen	LY96 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 102-132 amino acids from the C-terminal region of human LY96.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-LY96 antibody	Antibodies; Toll Like Receptors (TLR)
Applications Tested/Suitable for anti-LY96 antibody	Western Blot (WB), FLISA
Application Notes for anti-LY96 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-LY96 antibody	This gene encodes a protein which associates with toll-like receptor 4 on the cell surface and confers responsiveness to lipopolysaccyaride (LPS), thus providing a link between the receptor and LPS signaling. Studies of the mouse ortholog suggest that this gene may be involved in endotoxin neutralization. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product References and Citations for anti-LY96 antibody	Meng, J., et al. J. Biol. Chem. 285(36):27935-27943(2010). Gray, P., et al. J. Immunol. 184(11):6359-6366(2010). Salvesen, B., et al. Mol. Immunol. 47(6):1226-1234(2010). Ohnishi, T., et al. Microbiol. Immunol. 54(2):74-80(2010). Xue, Y., et al. Genet. Mol. Res. 9(3):1584-1590(2010).
Other Notes	Small volumes of anti-LY96 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 LY96 purchase	MBS6317664 is an antibody targeting LY96. Also known as LY96, CT (LY96, ESOP1, MD2, Lymphocyte antigen 96, ESOP-1, Protein MD-2) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LY96. It may not necessarily be applicable to this product.

NCBI GI #	223555998
NCBI GeneID	23643
NCBI Accession #	NP_056179.2
UniProt Primary Accession #	Q9Y6Y9
UniProt Related Accession #	Q9Y6Y9
GenBank Nucleotide #	NP_056179.2
NCBI Official Full Name	lymphocyte antigen 96
NCBI Official Synonym Full Names	lymphocyte antigen 96
NCBI Official Symbol	LY96
NCBI Official Synonym Symbols	MD2; MD-2; ly-96; ESOP-1
UniProt Protein Name	Lymphocyte antigen 96
UniProt Synonym Protein Names	ESOP-1; Protein MD-2
Protein Family	Lymphocyte antigen
UniProt Gene Name	LY96
UniProt Synonym Gene Names	ESOP1; MD2; Ly-96
UniProt Entry Name	LY96_HUMAN
NCBI Protein Information	lymphocyte antigen 96
UniProt Comments for LY96	LY96: a secreted protein that binds to the extracellular domains of TLR2 and TLR4. Cooperates with TLR4 in the innate immune response to bacterial lipopolysaccharide (LPS), and with TLR2 in the response to cell wall components from Gram-positive and Gram-negative bacteria. Enhances TLR4-dependent activation of NF-kappa-B. Cells expressing both LY96 and TLR4, but not TLR4 alone, respond to LPS. Heterogeneous homopolymer formed from homodimers; disulfide-linked. Belongs to the lipopolysaccharide (LPS) receptor complex, a multi-protein complex containing at least CD14, LY96 and TLR4. Ligand binding induces interaction with TLR4 and oligomerization of the complex. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 8q21.11 Cellular Component: extracellular space; plasma membrane; lipopolysaccharide receptor complex; endosome membrane Molecular Function: protein binding; lipopolysaccharide receptor activity; coreceptor activity Biological Process: I-kappaB kinase/NF-kappaB cascade; MyD88-independent toll-like receptor signaling pathway; positive regulation of lipopolysaccharide-mediated signaling pathway; response to lipopolysaccharide; toll-like receptor 3 signaling pathway; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; cell surface receptor linked signal transduction; detection of lipopolysaccharide; lipopolysaccharide-mediated signaling pathway; toll-like receptor signaling pathway; innate immune response; cellular defense response; inflammatory response; toll-like receptor 4 signaling pathway
Research Articles on LY96	**1.** The data show that mice expressing humanTLR4/ human MD-2 are slightly more susceptible to C. burnetii infection at some intervals than those expressing mouse TLR4.

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