

Recombinant Human Lymphocyte Antigen 96, His-tagged

Cat. No. LY96-1548H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LY96 was expressed in <i>E. Coli</i> using an N-terminal His tag. MW= 22 kDa.
Species	Human
Source	E.coli
Description	MD-2 is a member of the Toll/interleukin-1 receptor (TIR) family, a group of proteins that include the Toll-like receptors (TLRs). TLRs are signaling molecules that recognize different pathogen-associated molecular patterns (PAMPs) and serve as an important link between the innate and adaptive immune responses. TLR4, the major signaling receptor for lipopolysaccharide (LPS), requires the binding of MD-2 to its extracellular region for maximal response to LPS. The specificity of this response is determined by the species of MD-2; e.g., human MD-2 transfected into mouse cells can cause mouse TLR4 to react to LPS analogs that are normally antagonistic to human but not mouse TLR4.
Sequence	1-160.
Purity	95%.
Specific Activity	n/aH.
Applications	E, WB, MS.

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Buffer	1X PBS containing 0.1% SDS.
Storage	Store at -70°C. As with any protein, exposing LY96 recombinant protein to repeated freeze/thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
SDS-PAGE	SDS PAGE Analysis of LY96 Recombinant Protein. 4-20% SDS gradient gel. Coomassie blue staining.

GENE INFORMATION

Gene Name	LY96 lymphocyte antigen 96 [Homo sapiens]
Synonyms	LY96; lymphocyte antigen 96; MD2; MD-2; myeloid differentiation protein-2; MD-2 protein
Gene ID	23643
mRNA Refseq	NM_015364
Protein Refseq	NP_056179
MIM	605243
UniProt ID	Q9Y6Y9
Chromosome Location	8q21.11
Pathway	Pathogenic Escherichia coli infection; Toll-like receptor signaling pathway; Signaling in Immune system

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Function

coreceptor activity; lipopolysaccharide receptor activity; protein binding

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