

## Recombinant Human Lymphocyte Antigen 96, His-tagged

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

### SPECIFICATION

|                          |  |
|--------------------------|--|
| <b>Product Overview</b>  | Recombinant Human LY96 was expressed in <i>E. Coli</i> using an N-terminal His tag. MW= 22 kDa.  |
| <b>Species</b>           | Human  |
| <b>Source</b>            | E.coli   |
| <b>Description</b>       | <p>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.</p> |
| <b>Sequence</b>          | 1-160.   |
| <b>Purity</b>            | 95%.   |
| <b>Specific Activity</b> | n/aH.  |
| <b>Applications</b>      | E, WB, MS.   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                 |   |
|-----------------|---|
| <b>Buffer</b>   | 1X PBS containing 0.1% SDS.   |
| <b>Storage</b>  | 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. |
| <b>SDS-PAGE</b> | SDS PAGE Analysis of LY96 Recombinant Protein. 4-20% SDS gradient gel. Coomassie blue staining.   |

## GENE INFORMATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Function**

coreceptor activity; lipopolysaccharide receptor activity; protein binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA