



Recombinant Human Toll-like receptor 2 (TLR2), partial

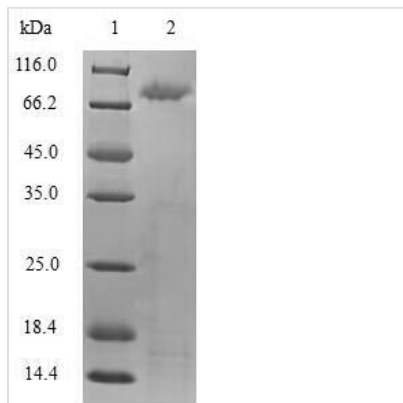
Product Code	CSB-EP023601HU1
Relevance	Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 or TLR6 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. May also promote apoptosis in response to lipoproteins. Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulins (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR6.
Abbreviation	Recombinant Human TLR2 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O60603
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLSNNRITYISNSDL QRCVNQLQALVLTSGINTIEEDSFSSLGSLEHLDLSYNYLSNLSSSWFKPLSSL TFLNLLGNPYKTLGETSLFSHLTKLQILRVGNMDTFTKIQRKDFAGLTFLEELEI DASDLQSYEPKSLKSIQNVSHLILHMKQHILLLEIFVDVTSSVECLELRDLDLDTF HFSELSTGETNSLIKKFTFRNVKITDESLFQVMKLLNQISGLLELEFDDCTLNGV GNFRASDNDNRVIDPGKVETLTIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSK VFLVPCLLSQHLKSLEYLDLSENLMVEEYLKNSACEDAWPSLQTLILRQNHLS LEKTGETLLTLKNLTNIDISKNSFHSMPCQWPEKMKYLNLSSTRIHSVTGCIP KTLEILDVSNNNLNLFSNLNLPQLKELYISRNLMTLPDASLLPMLLVLKISRNAITT FSKEQLDSFHTLKTLEAGGNNFICSCFELSFTQEQQALAKVLIDWPANYLCDSP SHVRGQQVQDVRLSVSECHRT
Research Area	Immunology
Source	E.coli
Target Names	TLR2
Expression Region	19-588aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged



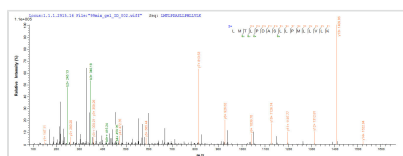
Mol. Weight 80.4kDa

Protein Length Partial

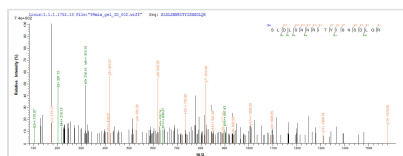
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP023601HU1 could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) TLR2.



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Description

The recombinant Human TLR2 protein is encoded by the gene of TLR2 (19-588aa). The gene of TLR2 was cloned in a system (E.coli) that supported the expression of TLR2. Modification of TLR2 by recombinant DNA technology could lead to the expression of the target protein. The protein was fused with N-terminal 6xHis-SUMO tag in the production. The purity is 90% determined by SDS-PAGE.

TLR2 is a protein coding gene that encodes Toll-like receptor 2. According to some research, TLR2 may have the following features. TLR2 and TLR4 have different roles in recognizing the cell wall components of Gram-negative and Gram-positive bacteria. The crystal structure of TLR1-TLR2 heterodimer induced by triacylated lipopeptide. Toll-like receptor 2 (TLR2) and TLR4 activate human dendritic cells to varying degrees. Kidney-related TLR2 mediates renal ischemia/reperfusion injury. TLR9 regulates Th1 response and cooperates with TLR2 to mediate the best resistance to Mycobacterium tuberculosis. TLR2 is expressed on activated T cells and is a cost-stimulating receptor. Factors produced by cancer cells activate bone marrow cells through TLR2 to stimulate metastasis. TIRAP plays an important role in activating the signal cascade shared by TLR2 and TLR4.

Shelf Life

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