

Product datasheet for PH307597

TLR2 (NM_003264) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TLR2 MS Standard C13 and N15-labeled recombinant protein (NP_003255)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207597
Predicted MW:	89.8 kDa
Protein Sequence:	>RC207597 protein sequence Red=Cloning site Green=Tags(s)
	MPHTLWMVWVLGVIIISLSKEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLSNNRITYISNS DLQRCVNLQALVLTSGINTIEEDSFSSLSGLEHLDSLNYLNLSSSWFKPLSSLTFLNLLGNPYKTLG ETSLFSLTKLQILRVGNMDFTKIQRKDFAGLTFLEELEIDASDLQSYEPKSLKSIQNVSHLILHMKQH ILLLEIFVDVTSSVECLELRDLDLTFHFSELSTGETNSLIKKFTFRNVKITDESLFQVMKLLNQISGLL ELEFDCTLNGVGNFRASDNDRVIDPGKVETLIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFL VPCLLSQHLKSLEYLDLSENLMVEEYLKNSACEDAWPSLQTLILRQNHLASLEKTGETLLTLKNLTNIDI SKNSFHSPETCQWPEKMKYLNLSSTRIHSVTGCIPKLEILDVSNLNLNLFSLNLPQLKELYISRNKLM TLPDASLLPMLLVLKISRNAITTFKEQLDSFHTLKTLEAGGNFICSCEFLSFTQEQQALAKVLIDWPA NYLCDSPSHVRGQVQDVRVLSVSECHRTALVSGMCCALFLLILLTGVLCHRFGHLWYMKMMWAWLQAKRK PRKAPSRNICYDAFVSYSERDAYWVENLMVQELENFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTV FVLSNFVKSEWKYELDFSHFRLFDENNDAAIILLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMDEAQ REGFWVNLRAAIKS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003255</u>



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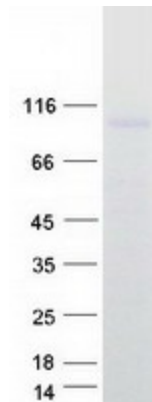
RefSeq Size:	3417
RefSeq ORF:	2352
Synonyms:	CD282; TIL4
Locus ID:	7097
UniProt ID:	O60603 , A0A0S2Z4S4
Cytogenetics:	4q31.3

Summary: The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from *Drosophila* to humans and share structural and functional similarities. This protein is a cell-surface protein that can form heterodimers with other TLR family members to recognize conserved molecules derived from microorganisms known as pathogen-associated molecular patterns (PAMPs). Activation of TLRs by PAMPs leads to an up-regulation of signaling pathways to modulate the host's inflammatory response. This gene is also thought to promote apoptosis in response to bacterial lipoproteins. This gene has been implicated in the pathogenesis of several autoimmune diseases. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Toll-like receptor signaling pathway

Product images:



Coomassie blue staining of purified TLR2 protein (Cat# [TP307597]). The protein was produced from HEK293T cells transfected with TLR2 cDNA clone (Cat# [RC207597]) using MegaTran 2.0 (Cat# [TT210002]).