abcam

Product datasheet

Recombinant human CD14 protein ab204930

Description

Product name	Recombinant human CD14 protein
Biological activity	Determined by the dose dependent activation of NF-kappaB in a RAW264 cell line based reporter system, using an ab204930 concentration range of 20 ng/µl to 200 ng/µl. The NF-kappaB activation is enhanced when the assay is done in the presence of 0.25 ng/µl to 1.0 ng/µl bacterial LPS.
Purity	> 95 % SDS-PAGE. >95 % by HPLC
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	**P08571**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	TTPEPCELDD EDFRCVCNFS EPQPDWSEAF QCVSAVEVEI HAGGLNLEPF LKRVDADADP RQYADTVKAL RVRRLTVGAA QVPAQLLVGA LRVLAYSRLK ELTLEDLKIT GTMPPLPLEA TGLALSSLRL RNVSWATGRS WLAELQQWLK PGLKVLSIAQ AHSPAFSCEQ VRAFPALTSL DLSDNPGLGE RGLMAALCPH KFPAIQNLAL RNTGMETPTG VCAALAAAGV QPHSLDLSHN SLRATVNPSA PRCMWSSALN SLNLSFAGLE QVPKGLPAKL RVLDLSCNRL NRAPQPDELP EVDNLTLDGN PFLVPGTALP HEGSMNSGVV P
Predicted molecular weight	36 kDa
Amino acids	20 to 350
Additional sequence information	This product is for the mature full length protein. The signal peptide and propeptide are not included. NP_000582.1.

Specifications

Our **Abpromise guarantee** covers the use of **ab204930** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC SDS-PAGE Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.
Tissue specificity	Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.
Sequence similarities	Contains 11 LRR (leucine-rich) repeats.
Post-translational modifications	N- and O- glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan.
Cellular localization	Cell membrane.

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