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32-20555: Recombinant Human sCD14(Discontinued)

Reactivity : Human, Mouse
Alternative Name : soluble CD14, Monocyte differentiation antigen CD14

Description

Source:HEK293 cells
CD14 is a cell surface-anchored glycoprotein that is expressed predominantly by monocytes and tissue macrophages. CD14 associates with MD-2 (LY-96) and TLR4 to form a receptor complex, which signals specifically in response to bacterial lipopolysaccharide (LPS) binding. The CD14/MD-2/TLR4 receptor complex signals via MyD88, TIRAP, and TRAF6, and ultimately activates NF-kB. CD14 also exists in a soluble form, designated as sCD14, which is capable of specifically binding LPS in the extracellular space. Recombinant sCD14 is a 331 amino acid glycoprotein comprising the extracellular portion of the CD14 receptor. Â The calculated molecular weight of Recombinant Human sCD14 is 35.6 kDa.

Product Info

Amount : 10 µg / 50 µg
Purification : Purity:>= 95% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : 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

Application Note

Determined by the dose dependent activation of NF-kB in a RAW264 cell line based reporter system, using a sCD14 concentration range of 20 ng/ÃÂµl to 200 ng/ÃÂµl. The NF-kB activation is enhanced when the assay is done in the presence of 0.25 ng/ÃÂµl to 1.0 ng/ÃÂµl bacterial LPS.