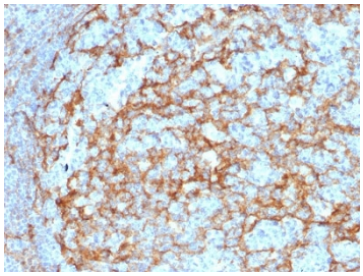
CD14 Antibody (Macrophage Marker) [clone LPSR/2385] (V3758)

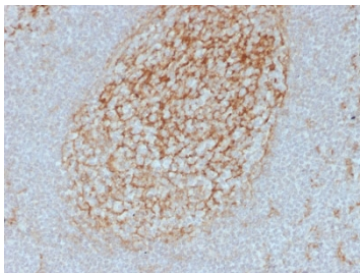
Catalog No.	Formulation	Size
V3758-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3758-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3758SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

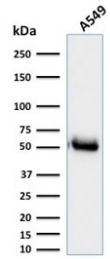
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	LPSR/2385
Purity	Protein G affinity chromatography
UniProt	P08571
Localization	Cell surface, Secreted, Cytoplasmic (Golgi)
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-2ug/10^6 cells Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD14 antibody is available for research use only.



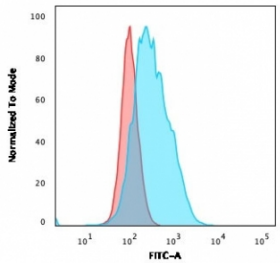
IHC testing of FFPE human lymph node with CD14 antibody (clone LPSR/2385). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



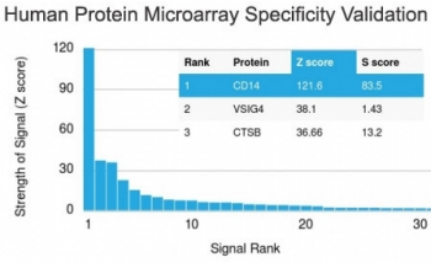
IHC testing of FFPE human tonsil tissue with CD14 antibody (clone LPSR/2385). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



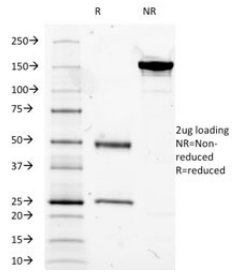
Western blot testing of human A549 cell lysate with CD14 antibody (clone LPSR/2385). Predicted molecular weight: 40-55 kDa depending on glycosylation level.



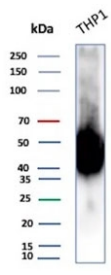
Flow cytometry testing of human A549 cells with CD14 antibody (clone LPSR/2385); Red=isotype control, Blue= CD14 antibody.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD14 antibody (clone LPSR/2385). These results demonstrate the foremost specificity of the LPSR/2385 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD14 antibody (clone LPSR/2385) as confirmation of integrity and purity.



Western blot testing of human ThP-1 cell lysate with CD14 antibody (clone LPSR/2385). Predicted molecular weight: 40-55 kDa depending on glycosylation level.

Description

Recognizes a protein of 55kDa, identified as Cluster of Differentiation 14 (also known lipopolysaccharide receptor or LPSR). CD14 is expressed strongly on monocytes and macrophage and weakly on the surface of neutrophils. It is anchored to cells by linkage to glycosylphosphatidylinositol (GPI) and functions as a high affinity receptor for complexes of LPS and LPS binding protein (LBP). Soluble CD14, also binding to LPS, acts at physiological concentration as an LPS agonist and has, at higher concentrations, an LPS antagonizing effect in cell activation.

Application Notes

Variations in protocols, secondaries and substrates may require the CD14 antibody to be titered up or down for optimal performance.

Immunogen

A human recombinant partial protein (within amino acids 25-148) was used as immunogen for this CD14 antibody.

Storage

CD14 antibody with azide can be stored at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.