Datasheet for ABIN6941093

anti-CD14 antibody (AA 25-148)

6 Images

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Overview

Quantity:	100 µg
Target:	CD14
Binding Specificity:	AA 25-148
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD14 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (IHC), Immunostaining (ISt), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human CD14 protein (around aa 25-148) (exact sequence is proprietary)
Clone:	LPSR-2385
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 55 kDa, identified as CD14 (also known lipopolysaccharide receptor). CD14 is expressed strongly on monocytes and macrophage and weakly on the surface of neutrophils. CD14 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.

Product Details

Purification:	Purified by Protein A/G

Target Details

Target:	CD14
Alternative Name:	CD14 (CD14 Products)
Molecular Weight:	55kDa
Gene ID:	929
UniProt:	P08571
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Toll-Like Receptors Cascades

Application Details

Application Notes:	Positive Control: A549, THP-1 cells and human monocytes. Lymph nodes and tonsils. Known Application: Western Blot (1-2 µg/mL), Flow Cytometry (1-2 µg/million cells),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0 for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

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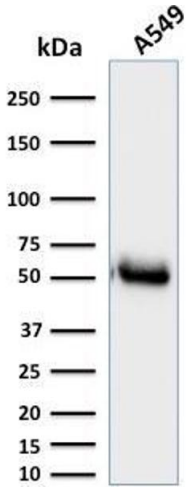
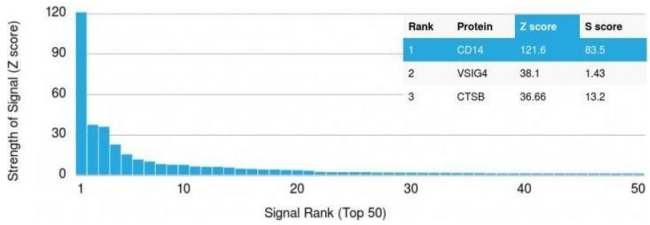


Western Blotting

Image 1. Western Blot Analysis of A549 cell lysate using CD14-Monospecific Mouse Monoclonal Antibody (LPSR/2385).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using CD14-Monospecific Mouse Monoclonal Antibody (LPSR/2385) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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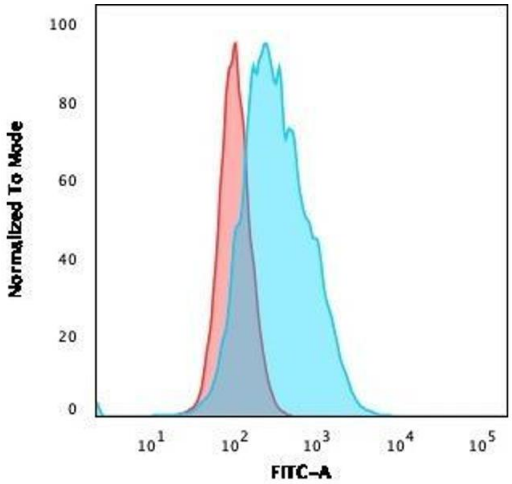

Flow Cytometry

Image 3. Flow Cytometric Analysis of A549 cells using CD14-Monospecific Mouse Monoclonal Antibody (LPSR/2385).) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the product details page for more images. Overall 6 images are available for ABIN6941093.