

## Mouse CD14 Monoclonal Antibody | anti-CD14 antibody

CD14 (Monocyte/Macrophage Marker)

|                               |                      |                                                |                                             |
|-------------------------------|----------------------|------------------------------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA214583</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human. Others not tested.</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|----------------------|------------------------------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

CD14; Monoclonal Antibody; CD14 (Monocyte/Macrophage Marker); Lipopolysaccharide receptor; LPS-R; LPSR; Mo2; Monocyte Differentiation Antigen 14; Myeloid cell-specific leucine-rich glycoprotein; anti-CD14 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity                                     | Human. Others not tested.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                                        | IgG2b, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clone Number                                   | LPSR/2397                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                    | Recognizes a protein of 55kDa, 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. |
| Form/Format                                    | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Length                                | 375                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-CD14 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen                                      | Recombinant fragment of human CD14 protein (around aa 25-148)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cellular Localization                          | Cell Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hu-chromosome Location                         | 5q31.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Positive Control                               | THP-1 cells and human monocytes. Lymph nodes and tonsils.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Preparation and Storage                        | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                  |

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using CD14 Mouse Monoclonal Antibody (LPSR/2397) 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 (SD's) 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 SD's) 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.



SDS-PAGE

SDS-PAGE Analysis Purified CD14 Mouse Monoclonal Antibody (LPSR/2397). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with CD14 Mouse Monoclonal Antibody (LPSR/2397).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Lymph Node stained with CD14 Mouse Monoclonal Antibody (LPSR/2397).

ADDITIONAL INFORMATION

|            |                                                                                               |
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| References | Schumann, R.R. 1992. Res. Immunol. 143: 11-15. Simmons, D.L., et al. 1989. Blood 73: 284-289. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 4557417                                |
| NCBI GeneID                      | 929                                    |
| NCBI Accession #                 | NP_000582.1                            |
| NCBI GenBank Nucleotide #        | NM_000591.3                            |
| UniProt Accession #              | P08571; Q53XT5; Q96FR6; Q96L99; Q9UN53 |
| Molecular Weight                 | 55kDa                                  |
| NCBI Official Full Name          | monocyte differentiation antigen CD14  |
| NCBI Official Synonym Full Names | CD14 molecule                          |
| NCBI Official Symbol             | CD14                                   |
| NCBI Protein Information         | monocyte differentiation antigen CD14  |
| UniProt Protein Name             | Monocyte differentiation antigen CD14  |
| UniProt Gene Name                | CD14                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.