

Datasheet: AHP1059

Description:	GOAT ANTI HUMAN CD14
Specificity:	CD14
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

RRID AB_770076

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			4 - 6 ug/ml
ELISA	▪			1/128,000
Immunoprecipitation			▪	
Western Blotting	▪			1 - 3 ug/ml
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)Heat-mediated antigen retrieval is required prior to staining paraffin sections with this antibody. Citrate buffer, pH6.0, is recommended for this purpose.

Target Species Human

Product Form Purified IgG - liquid

Antiserum Preparation Antisera to CD14 were raised by repeated immunisations of goat with highly purified antigen. Purified IgG prepared by affinity chromatography using the immunizing peptide, reactivity with the carrier protein was removed during purification.

Buffer Solution TRIS buffered saline

Preservative 0.02% Sodium Azide (NaN₃)
Stabilisers 0.5% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.5 mg/ml

Immunogen Peptide with sequence C-KRVDADADPRQYAD corresponding to amino acid residues 71-84 of the human CD14 precursor conjugated to a carrier protein.

External Database Links

UniProt:
[P08571](#) [Related reagents](#)

Entrez Gene:
[929](#) CD14 [Related reagents](#)

Specificity

Goat anti Human CD14 antibody recognizes human CD14, a 55 kDa receptor for endotoxin and other bacterial cell wall components. Goat anti Human CD14 antibody detects an epitope within the internal region of CD14. CD14 acts as a multiligand pattern recognition receptor, inducing specific coassembly of additional receptors, including MD-2 and TLR4 as part of the lipopolysaccharide (LPS) receptor.

The LPS receptor is expressed strongly on the surface of monocytes and weakly on the surface of granulocytes, and is also expressed by most tissue macrophages. Activation of the LPS receptor leads to NF-kappa-B activation, cytokine secretion and the inflammatory response. CD14 also up-regulates cell surface molecules, including adhesion molecules, and has been shown to bind apoptotic cells

Histology Positive Control Tissue

Human Spleen

Western Blotting

AHP1059 detects a band of approximately 55kD in human lung, lymph node and tonsil lysates.

References

1. Triantafilou, M. & Triantafilou, K. (2002) Lipopolysaccharide recognition: CD14, TLRs and the LPS-activation cluster. [Trends Immunol. 23 \(6\): 301-4.](#)
 2. Miyake, K. (2003) Innate recognition of lipopolysaccharide by CD14 and toll-like receptor 4-MD-2: unique roles for MD-2. [Int Immunopharmacol. 3 \(1\): 119-28.](#)
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Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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'M353072:190409'

Printed on 11 Oct 2019

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