

Datasheet: AHP1059

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

Product Details

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 (NaN ₃)

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	<p>UniProt: P08571 Related reagents</p> <p>Entrez Gene: 929 CD14 Related reagents</p>
RRID	AB_770076
Specificity	<p>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.</p> <p>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</p>
Histology Positive Control Tissue	Human Spleen
Western Blotting	AHP1059 detects a band of approximately 55kD in human lung, lymph node and tonsil lysates.
Further Reading	<ol style="list-style-type: none"> 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.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10058 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP1059>
10058

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 \(BUF025A\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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