

Product datasheet

Anti-CD14 antibody [EPR3653] - Low endotoxin, Azide free ab214438

Recombinant **RabMAb**

[3 References](#) [4 Images](#)

Overview

Product name	Anti-CD14 antibody [EPR3653] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR3653] to CD14 - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human CD14 aa 300-400. The exact sequence is proprietary.
Positive control	IHC-P: Human colon, placenta and tonsil tissue. WB: Human tonsil, SW480 and PBMCI lysates.
General notes	ab214438 is a carrier-free antibody designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [Low endotoxin, azide-free formats](#) have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a [recombinant rabbit monoclonal antibody](#).

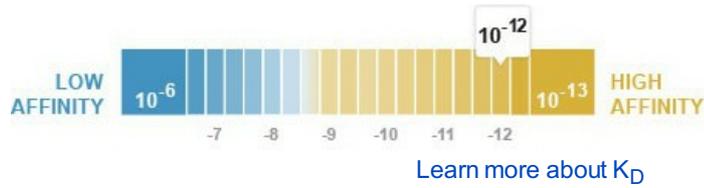
Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Dissociation constant (K_D)

K_D = 4.70 x 10⁻¹² M



Storage buffer

pH: 7.40

Constituent: PBS

Purity

Protein A purified

Clonality

Monoclonal

Clone number

EPR3653

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab214438** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 53 kDa (predicted molecular weight: 40 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

Target

Function

Cooperates with MD-2 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules.

Tissue specificity

Expressed strongly on the surface of monocytes and weakly on the surface of granulocytes; also expressed by most tissue macrophages.

Sequence similarities

Contains 11 LRR (leucine-rich) repeats.

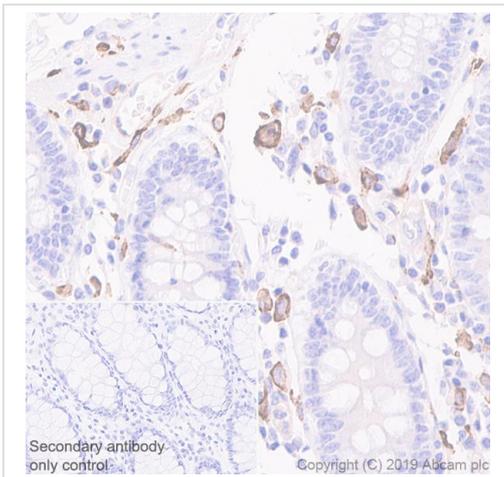
Post-translational modifications

N- and O- glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan.

Cellular localization

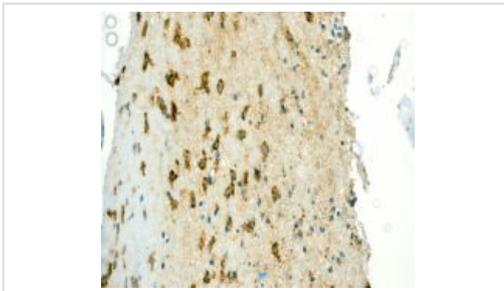
Cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD14 antibody [EPR3653] - Low endotoxin, Azide free (ab214438)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue sections labeling CD14 with purified [ab133335](#) at 1/2000 dilution (0.04 µg/ml). Heat mediated antigen retrieval was performed. Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133335](#))

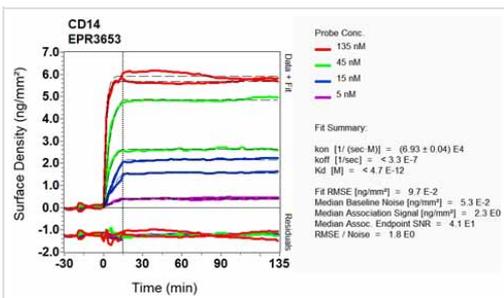


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD14 antibody [EPR3653] - Low endotoxin, Azide free (ab214438)

Immunohistochemical analysis of Formalin-fixed, paraffin-embedded Human placenta tissue labelling CD14 with [ab133335](#) (unpurified) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133335](#)).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



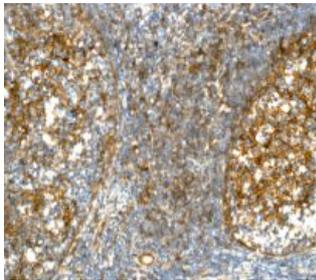
Other - Anti-CD14 antibody [EPR3653] - Low endotoxin, Azide free (ab214438)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133335](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD14 antibody [EPR3653] - Low endotoxin, Azide free (ab214438)

This IHC data was generated using the same anti-CD14 antibody clone, EPR3653, in a different buffer formulation (cat# [ab133335](#)) (unpurified).

Immunohistochemical analysis of Formalin-fixed, paraffin-embedded Human tonsil tissue labelling CD14 with [ab133335](#) at 1/500 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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