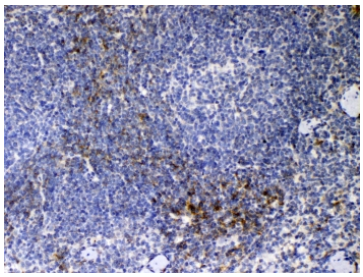
Cd14 Antibody (R32821)

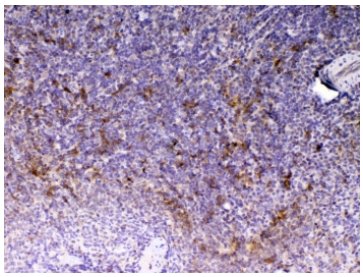
Catalog No.	Formulation	Size
R32821	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

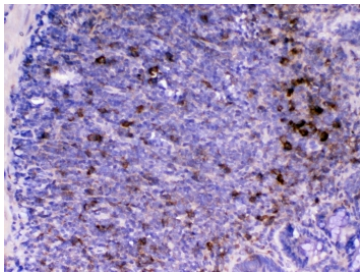
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P10810
Localization	Cell surface, Secreted, Cytoplasmic (Golgi)
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/10^6 cells
Limitations	This Cd14 antibody is available for research use only.



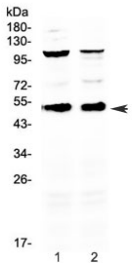
IHC testing of FFPE mouse spleen tissue with Cd14 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



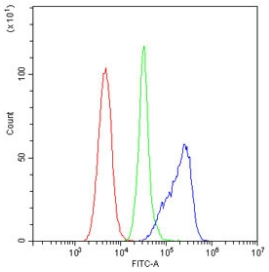
IHC testing of FFPE rat spleen tissue with Cd14 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE rat lymph tissue with Cd14 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Western blot testing of 1) mouse thymus and 2) mouse spleen with Cd14 antibody at 0.5ug/ml. Predicted molecular weight ~40 kDa (unmodified) and 50-55 kDa (glycosylated).



Flow cytometry testing of mouse PBM cells with Cd14 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Cd14 antibody.

Description

CD14 is a single-copy gene encoding 2 protein forms: a 50- to 55 kDa glycosylphosphatidylinositol-anchored membrane protein (mCD14) and a monocyte or liver-derived soluble serum protein (sCD14) that lacks the anchor. This gene is located at bands 5q23-q31. The protein encoded by this gene is a surface antigen that is preferentially expressed on monocytes/macrophages. CD14 acts as a co-receptor (along with the Toll-like receptor TLR 4 and MD-2) for the detection of bacterial lipopolysaccharide (LPS). CD14 can bind LPS only in the presence of lipopolysaccharide-binding protein (LBP). Although LPS is considered its main ligand, CD14 also recognizes other pathogen-associated molecular patterns.

Application Notes

Optimal dilution of the Cd14 antibody should be determined by the researcher.

Immunogen

A recombinant mouse protein corresponding to amino acids S16-A260 was used as the immunogen for the Cd14 antibody.

Storage

After reconstitution, the Cd14 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.