

Product Datasheet

CD14 Antibody (4B4F12) - BSA Free NBP2-37291

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-37291

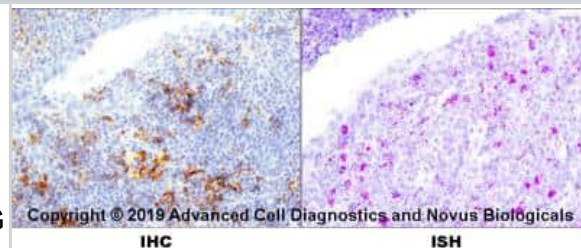
CD14 Antibody (4B4F12) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4B4F12
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	40 kDa
Product Description	
Description	Novus Biologicals Mouse CD14 Antibody (4B4F12) - BSA Free (NBP2-37291) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, Dual RNAscope ISH-IHC and ICC/IF. Anti-CD14 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	929
Gene Symbol	CD14
Species	Human, Mouse
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Purified recombinant fragment of human CD14 (AA: 20-214) expressed in E. Coli.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, CyTOF-ready, Dual RNAscope ISH-IHC
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:200, Immunohistochemistry-Paraffin 1:200 - 1:1000, CyTOF-ready, Dual RNAscope ISH-IHC
Application Notes	This antibody is Cytof ready. CD14 antibody validated for ICC/IF from a verified customer review.

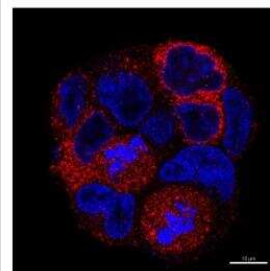


Images

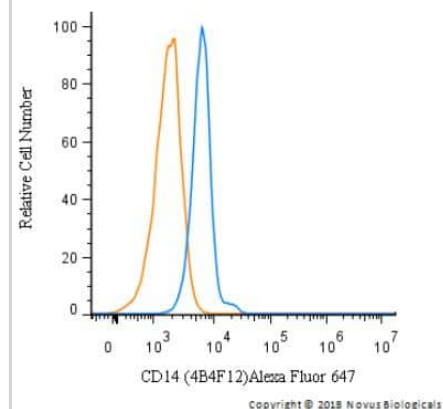
Dual RNAscope ISH-IHC: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Tissue sections of human tonsil were probed for CD14 mRNA (ACD RNAscope probe, catalog # 418801; Fast Red chromogen, ACD catalog # 322500). Adjacent tissue section was processed for immunohistochemistry using mouse monoclonal (Novus catalog # NBP2-37291) at 1:100 dilution for 1 hour at room temperature followed by incubation with the anti-mouse IgG VisUCyte HRP Polymer Antibody (Catalog # VC001) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue).



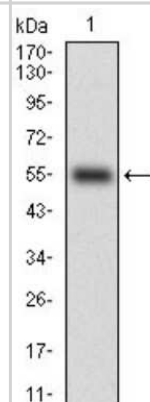
Immunocytochemistry/Immunofluorescence: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Confocal image of hCD14-transfected HEKT cells, 4% formalin fixed, indirectly labeled with anti-CD14 1:200, and AF568-conjugated Ab 1:1000. Note that cells have different immunoreactivity due to various expression level of CD14 in single cells. Image from verified customer review.



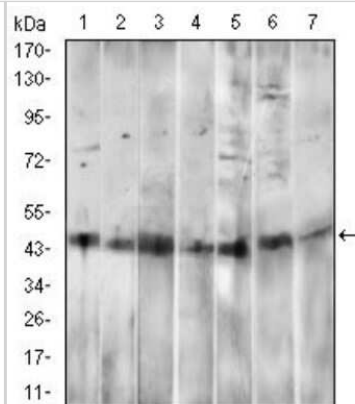
Flow Cytometry: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - An intracellular stain was performed on Jurkat cells with NBP2-37291AF647 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



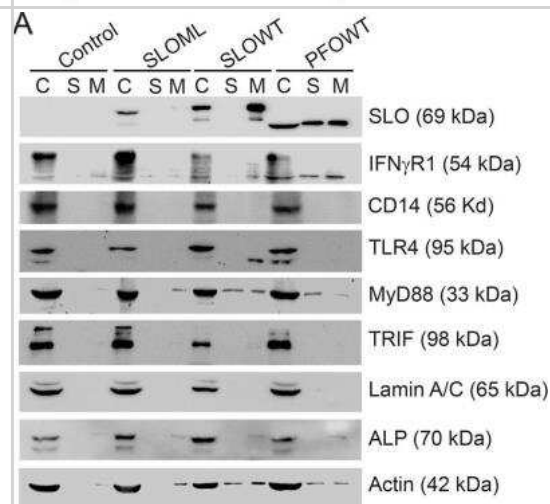
Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Analysis using CD14 mAb against human CD14 (AA: 20-214) recombinant protein. (Expected MW is 46.8 kDa)



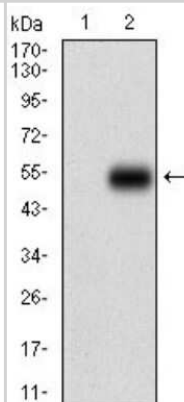
Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Analysis using CD14 mouse mAb against HepG2 (1), A549 (2), HL60 (3), RAW264.7 (4), Hela (5), HEK293 (6) and NIH/3T3 (7) cell lysate.



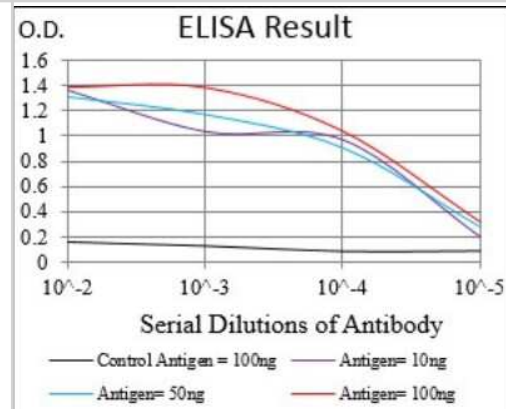
Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - BMDM were unchallenged (control) or challenged with 500 HU/mL SLO WT, PFO or an equivalent mass of SLO ML for 10 min at 37C and centrifuged at 2000 x g for 5 min to yield cell pellet (C). Supernatants were spun at 100,000xg for 40 min at 4C to collect the high speed supernatant (S) and microvesicle pellet (M). Samples were solubilized at 95C in SDS-sample buffer, resolved by SDS-PAGE and transferred to nitrocellulose. Portions of the blot were probed with 6D11 anti-SLO, anti-IFN γ R1, 4B4F12 anti-CD14, 76B357.1 anti-TLR4, O91B8 anti-MyD88, 1H4B01 anti-Trif, EPR4477 anti-Alkaline Phosphatase, MANLAC-4A7 anti-Lamin A/C, and AC-15 anti-beta-Actin, followed by relevant secondary antibodies and ECL. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-018-24955-2>) licensed under a CC-BY license.



Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Analysis using CD14 mAb against HEK293 (1) and CD14 (AA: 20-214)-hlgGfc transfected HEK293 (2) cell lysate.



ELISA: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



Publications

Bhattacharjee P, Keyel PA. Cholesterol-dependent cytolysins impair pro-inflammatory macrophage responses. Sci Rep 2018-04-24 [PMID: 29691463]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA

Phone: 303.730.1950

Toll Free: 1.888.506.6887

Fax: 303.730.1966

nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada

Phone: 905.827.6400

Toll Free: 855.668.8722

Fax: 905.827.6402

canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449

Free Phone: 0800 37 34 15

Fax: (44) (0) 1235 533420

info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com

Technical Support: nb-technical@bio-techne.com

Orders: nb-customerservice@bio-techne.com

General: novus@novusbio.com

Products Related to NBP2-37291

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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