

Biotin Monoclonal Antibody (BK-1/39), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Chemical
Published Species	Chemical
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BK-1/39
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574489

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	1 Publication

Product Specific Information

Description: This BK-1/39 monoclonal antibody reacts with biotin, a B-complex vitamin. As a coenzyme, biotin is involved in the metabolism of fatty acids, amino acids, and gluconeogenesis. In the laboratory, biotin is used to tag molecules of interest for biochemical or cell biological studies. This monoclonal antibody can be used to detect biotinylated proteins and antibodies, particularly if signal amplification is desired.

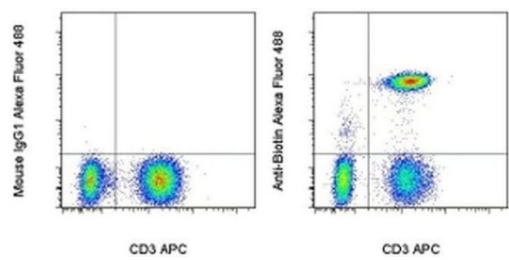
Applications Reported: This BK-1/39 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This BK-1/39 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells stained with a biotin-conjugated antibody. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Biotin Monoclonal Antibody (BK-1/39), Alexa Fluor™ 488, eBioscience™



Biotin Antibody (53-9895-82) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0036-42) and Anti-Human CD4 Biotin (Product # 13-0048-82) followed by either 0.125 µg of Mouse IgG1 K Isotype Control Alexa Fluor® 488 (Product # 53-4714-42) (left) or 0.125 µg of Anti-Biotin Alexa Fluor® 488 (Product # 53-9895-82) (right). Cells in the lymphocyte gate were used for analysis.

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2 References

Western Blot (1)

Proceedings of the National Academy of Sciences of the United States of America	Year 2017
Engineered erythrocytes covalently linked to antigenic peptides can protect against autoimmune disease.	Species Chemical
"Published figure using Biotin monoclonal antibody (Product # 53-9895-82) in Western Blot"	
Authors: Pishesha N,Bilate AM,Wibowo MC,Huang NJ,Li Z,Deshycka R,Bousbaine D,Li H,Patterson HC,Dougan SK, Maruyama T,Lodish HF,Ploegh HL	

Flow Cytometry (1)

Proceedings of the National Academy of Sciences of the United States of America	Year 2017
Engineered erythrocytes covalently linked to antigenic peptides can protect against autoimmune disease.	Species Chemical
"Published figure using Biotin monoclonal antibody (Product # 53-9895-82) in Western Blot"	
Authors: Pishesha N,Bilate AM,Wibowo MC,Huang NJ,Li Z,Deshycka R,Bousbaine D,Li H,Patterson HC,Dougan SK, Maruyama T,Lodish HF,Ploegh HL	

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