Performance guarenteed'



Product Details

Size	500 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Туре	Antibody
Clone	BBK-2
Conjugate	Unconjugated
Immunogen	Ectodomain of human 4-1BB recombinant protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10981098

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	2 μg/mL	-
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	Assay-dependent	2 Publications
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	1 Publication

Product Specific Information

MA5-13739 targets CD137 in FACS and IF applications and shows reactivity with Human samples.

The MA5-13739 immunogen is ectodomain of human 4-1BB recombinant protein.

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Product Images For CD137 Monoclonal Antibody (BBK-2)



CD137 Antibody (MA5-13739) in IHC (P)

Immunohistochemical analysis of CD137 (4-1BB) was performed using formalinfixed paraffin-embedded human tonsil tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - High pH (10X) (Product # 00-4956-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 2% normal goat serum in 1X PBS for 45 minutes at room temperature and then probed with or without CD137 Monoclonal Antibody (BBK-2) (Product # MA5-13739) at 2 µg/mL concentration in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. Detection was performed using Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723) at a dilution of 1:2000 in 0.1% normal goat serum for 45 minutes at room temperature. ReadyProbes™ Tissue Autofluorescence Quenching Kit (Product # R37630) was used to guench autofluorescence from the tissues. Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong[™] Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.

CD137 Antibody (MA5-13739) in IHC (P)



Immunohistochemical analysis of CD137 (4-1BB) was performed using formalinfixed paraffin-embedded human tonsil tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - High pH (10X) (Product # 00-4956-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 2% normal goat serum in 1X PBS for 45 minutes at room temperature and then probed with or without CD137 Monoclonal Antibody (BBK-2) (Product # MA5-13739) at 2 µg/mL concentration in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. Detection was performed using Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723) at a dilution of 1:2000 in 0.1% normal goat serum for 45 minutes at room temperature. ReadyProbes™ Tissue Autofluorescence Quenching Kit (Product # R37630) was used to quench autofluorescence from the tissues. Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong[™] Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.



Flow cytometry analysis of CD137 in PBMC cells stimulated with PHA for 3 days (green) compared to an isotype control (blue). Human blood was collected, combined with a hydrophilic polysaccharide, centrifuged, transferred to a conical tube and washed with PBS. 50 μ L of cell solution was added to each tube at a dilution of 2x10^7 cells/mL, followed by the addition of 50 μ L of isotype control and primary antibody (Product # MA5-13739) at a dilution of 1 μ g/test. Cells were incubated for 30 min at 4°C and washed with a cell buffer, followed by incubation with a DyLight 488-conjugated secondary antibody for 30 min at 4°C in the dark. FACS analysis was performed using 400 μ L of cell buffer.

Concentration: 1µg/test (100µl)

2

9 References

Immunohistochemistry (4)

Cancer research	Year 2013		
Expression of CD137 on Hodgkin and Reed-Sternberg cells inhibits T-			
cell activation by eliminating CD137 ligand expression.	Species		
"MA5-13739 was used in immunohistochemistry to study the role of CD137 on Hodgkin and Reed-Sternberg cells in the mechanism by which they inhibit the activation of T-cells"	Human		
Authors: Ho WT, Pang WL, Chong SM, Castella A, Al-Salam S, Tan TE, Moh MC, Koh LK, Gan SU, Cheng CK, Schwarz H			
The American journal of pathology	Year		
CD137 is expressed in follicular dendritic cell tumors and in classical	2012		
Hodgkin and T-cell lymphomas: diagnostic and therapeutic implications.			
"MA5-13739 was used in immunohistochemistry to study the diagnostic and therapeutic importance of CD137 expression by follicular dendritic cell tumors and Hodgkin and T-cell lymphomas"	Human		
Authors: Anderson MW,Zhao S,Freud AG,Czerwinski DK,Kohrt H,Alizadeh AA,Houot R,Azambuja D,Biasoli I,Morais JC, Spector N,Molina-Kirsch HF,Warnke RA,Levy R,Natkunam Y			

View more IHC references on thermofisher.cn

OncoimmunologyYear
2016CD137 signaling in Hodgkin and Reed-Sternberg cell lines induces IL-13
secretion, immune deviation and enhanced growth.Species
Human"MA5-13739 was used in Immunohistochemistry to validate CD137 as a candidate target for immunotherapy of HL."Species
HumanAuthors: Rajendran S,Ho WT,Schwarz HSpecies
Human

Flow Cytometry (2)

Immunocytochemistry (1)

Molecular immunology CD137 enhances monocyte-ICAM-1 interactions in an E-selectin-	Year 2010
dependent manner under flow conditions. "MA5-13739 was used in flow cytometry to study the role of CD137 in monocyte recruitment to inflammation"	
Authors: Quek BZ,Lim YC,Lin JH,Tan TE,Chan J,Biswas A,Schwarz H	Dilution 1 μg/mL

More applications with references on thermofisher.cn

Neu (1) FN (1)

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