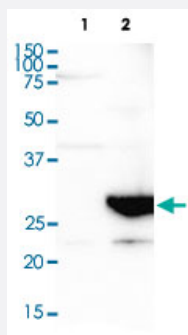


CLEC4E monoclonal antibody, clone AT16E3

Catalog # MAB8479

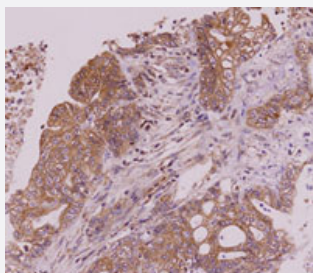
Size 100 uL

Applications



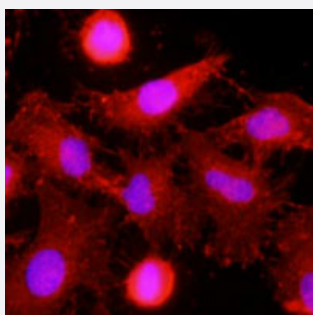
Western Blot

Western blot analysis of Lane 1: 293T cell lysate, Lane 2: MINCLE transfected 293T cell lysate.



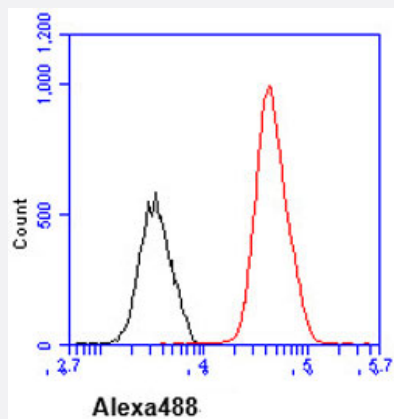
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry paraffin embedded sections of human colorectal cancer tissue were incubated with monoclonal CLEC4E monoclonal antibody, clone AT16E3 (Cat # MAB8479) (1 : 50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).



Immunofluorescence

Immunofluorescence of human HeLa cells stained with monoclonal CLEC4E monoclonal antibody, clone AT16E3 (Cat # MAB8479) (1 : 500) with Texas Red (Red). Nucleus was stained by Hoechst 33342 (Blue).



Flow Cytometry

Flow cytometry analysis of LNCap cell line, staining at 2-5 ug for 1x10⁶ cells. (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant CLEC4E.
Immunogen	Recombinant protein corresponding to amino acids 41-219 of human CLEC4E.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG2b, kappa
Recommend Usage	ELISA Flow Cytometry Immunohistochemistry Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: 293T cell lysate, Lane 2: MINCLE transfected 293T cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry paraffin embedded sections of human colorectal cancer tissue were incubated with monoclonal CLEC4E monoclonal antibody, clone AT16E3 (Cat # MAB8479) (1 : 50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).

- Immunocytochemistry

- Immunofluorescence

Immunofluorescence of human HeLa cells stained with monoclonal CLEC4E monoclonal antibody, clone AT16E3 (Cat # MAB8479) (1 : 500) with Texas Red (Red). Nucleus was stained by Hoechst 33342 (Blue).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometry analysis of LNCap cell line, staining at 2-5 ug for 1×10^6 cells. (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

Gene Info — CLEC4E

Entrez GeneID	26253
---------------	-----------------------

Protein Accession#	NP_055173
--------------------	---------------------------

Gene Name	CLEC4E
-----------	--------

Gene Alias	CLECSF9, MINCLE
------------	-----------------

Gene Description	C-type lectin domain family 4, member E
------------------	---

Omim ID	609962
---------	------------------------

Gene Ontology	Hyperlink
---------------	---------------------------

Gene Summary

This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signalling, glycoprotein turnover, and roles in inflammation and immune response. The encoded type II transmembrane protein is a downstream target of CCAAT/enhancer binding protein (C/EBP), beta (CEBPB) and may play a role in inflammation. Alternative splice variants have been described but their full-length sequence has not been determined. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region. [provided by RefSeq]

Other Designations

C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 9|macrophage-inducible C-type lectin

Publication Reference

- [Direct recognition of the mycobacterial glycolipid, trehalose dimycolate, by C-type lectin Mincle.](#)

Ishikawa E, Ishikawa T, Morita YS, Toyonaga K, Yamada H, Takeuchi O, Kinoshita T, Akira S, Yoshikai Y, Yamasaki S.
The Journal of Experimental Medicine 2009 Dec; 206(13):2879.

- [Mincle is a long sought receptor for mycobacterial cord factor.](#)

Matsunaga I, Moody DB.
The Journal of Experimental Medicine 2009 Dec; 206(13):2865.

- [The Dectin-2 family of C-type lectins in immunity and homeostasis.](#)

Graham LM, Brown GD.
Cytokine 2009 Aug; 48(1-2):148.