

Human MINCLE/CLEC4E antibody

Catalog Number: ATGA0175

PRODUCT INFORMATION

Catalog number

ATGA0175

Clone No.

AT16E3

Product type

Monoclonal Antibody

UnitProt No.

Q9ULY5

NCBI Accession No.

NP_055173

Alternative Names

CLEC4E, CLECSF9, C-type lectin domain family 4 member E, C-type lectin superfamily member 9, Macrophage lectin 2, Macrophage-inducible C-type lectin, MINCLE, NtmntanCLEC4E Ege lectin 2

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human MINCLE (41-219aa) purified from E.coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, IHC, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF, FACS and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

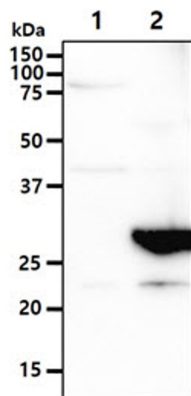
CLEC4E (macrophage inducible C-type lectin, also called MINCLE or CLECSF9), which is a diverse family of protein which was originally defined by their ability to recognize a wide range of ligand of carbohydrate structure. CLEC4E expressed in macrophages subjected to several types of stress. It plays an essential role in response to trehalose-6, 6'-dimycolate (TDM) and activated by a synthetic analogue, trehalose dibehenate (TDB). Recently it was reported that CLEC4E is associated with an immunoreceptor tyrosine-based activation motif-containing Fc receptor gamma chain (FcRgamma) and functions as an activating receptor for damaged self- and non-self-pathogenic fungi.

General References

- Ishikawa E, et al. (2009) J Exp Med, 206(13):2879-88.
Matsunaga I, et al. (2009) J Exp Med, 206(13):2865-8.
Graham LM, et al. (2009) Cytokine, 48(1-2):148-55.

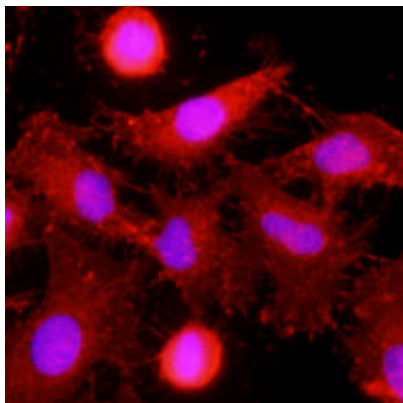
DATA

Western blot analysis (WB)



The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CLEC4E antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1. : 293T cell lysate
Lane 2. : MINCLE transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

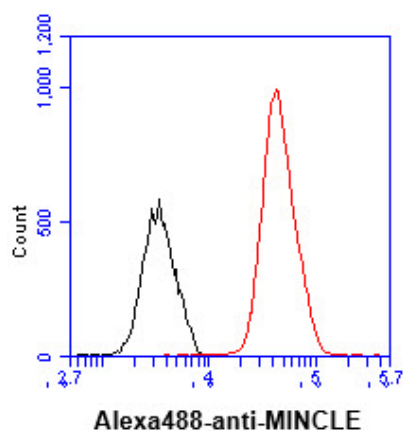


Immunofluorescence of human HeLa cells stained with monoclonal anti-human CLEC4E antibody (1:500) with Texas Red (Red). Nucleus was stained by Hoechst 33342 (Blue).

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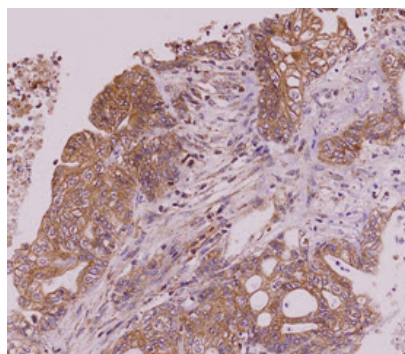
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Flow cytometry (FACS)



Flow cytometry analysis of CLEC4E in LNCap cell line, staining at 2-5ug 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).

Immunohistochemistry (IHC)



Paraffin embedded sections of colorectal cancer tissue were incubated with anti-human CLEC4E antibody (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).