

Human MINCLE/CLEC4E antibody

Catalog Number: ATGA0537

PRODUCT INFORMATION

Catalog number

ATGA0537

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

Additional Information

This product was produced from tissue culture supernatant.

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 CLEC4E (41-219aa) purified from E.coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and

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reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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

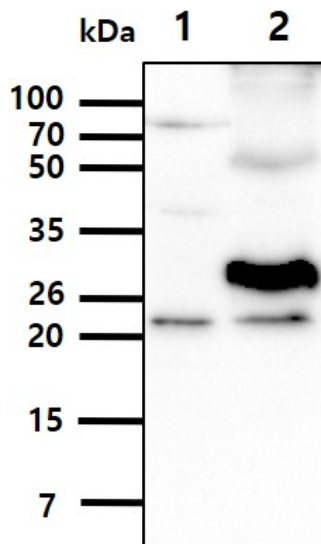
MINCLE (macrophage inducible C-type lectin, also called CLEC4E or CLECSF9), which is a diverse family of protein which was originally defined by their ability to recognize a wide range of ligand of carbohydrate structure. MINCLE expressed in macrophages subjected to several types of stress. It plays 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 MINCLE 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.

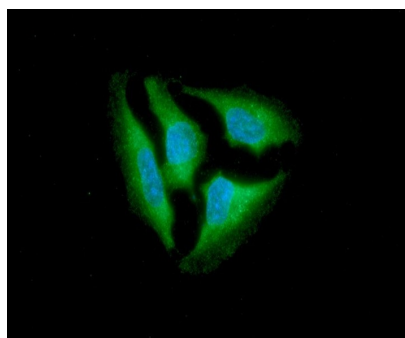
Lane 1.: 293T cell lysate

Lane 2.: CLEC4E Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

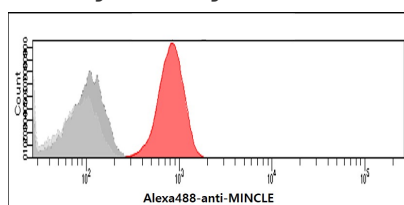
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ICC/IF analysis of CLEC4E in HeLa cells. The cell was stained with ATGA0537 (1:500). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of CLEC4E in LnCap cells. The cell was stained with ATGA0537 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).