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

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.

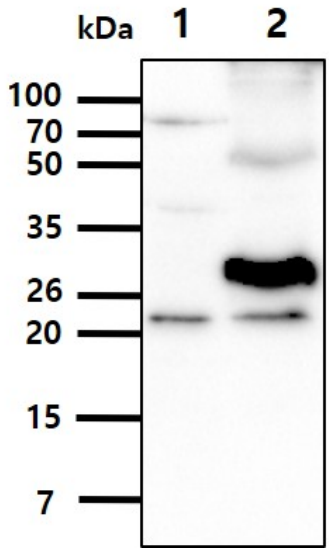
BACKGROUND

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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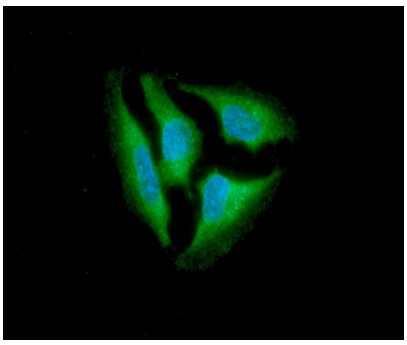
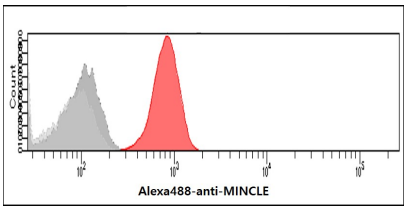


ICC/IF analysis of CLEC4E in HeLa cells. The cell was stained with ATGA0537 (1:500). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of CLEC4E in LnCap cells. The cell was stained with ATGA0537 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mousemonoclonal 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).