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Human NKp46/NCR1 antibody

Catalog Number: AKR0408

PRODUCT INFORMATION

Catalog number
AKR0408

Clone No.
n1D9

Product type
Monoclonal Antibody

UnitProt No.
O76036

NCBI Accession No.
NP_004820

Alternative Names
NKp46 Extracellular Ig-like domain, NK-p46, NK cell-activating receptor, NCR1, NCR, Natural killer cell p46-related protein, Natural cytotoxicity triggering receptor 1 isoform a, Natural cytotoxicity triggering receptor 1, Lymphocyte antigen 94 homolog, Ly96, LY94, hNKp46, CD335 antigen

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 Nkp46 (22-255aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, FACS

Usage
The antibody has been tested by ELISA, Western blot and FACS 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

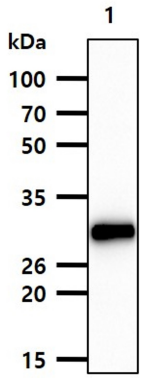
A natural cytotoxicity receptor (NCR), Nkp46, is a glycoprotein that has two extracellular Ig-like domains followed by a ~40 residue stalk resion, a type I transmembrane domain, and a short cytoplasmic tail. Nkp46 has been shown to represent a novel Nk cell-specific molecule involved in human Nk cell activation. The natural cytotoxicity receptors (NCRs) are a recently characterized family of Ig-like activation receptors that appear to be major triggering receptors in tumor cell recognition. Nkp46 has been implicated in Nk cell-mediated lysis of several autologous tumor cells and pathogen-infected cell lines.

General References

Sivori, S. et al., (1997) J. Exp. Med. 186:1125-36.
Pessino, A. et al., (1998) J. Exp. Med. 188:953-60.

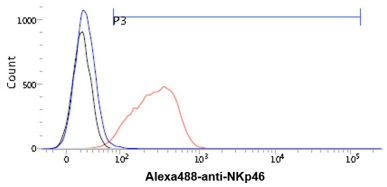
DATA

Western blot analysis (WB)



The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NKp46 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant human NKp46 protein

Flow cytometry (FACS)



Flow cytometry analysis of NKp46 in PBMC. The cell was stained with AKR0408 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (blue), cells without incubation with primary and secondary antibody was used as the negative control (black).

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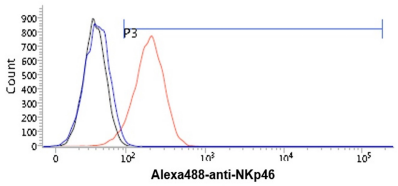

Flow cytometry analysis of NKp46 in HeLa cells. The cell was stained with AKR0408 at 2-5ug for 1x10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (blue), cells without incubation with primary and secondary antibody was used as the negative control (black).