NKMAXBio We support you, we believe in your research

Human CD94/KLRD1 antibody

Catalog Number: ATGA0487

PRODUCT INFORMATION

Catalog number
ATGA0487

Clone No.
AT13E3

Product type
Monoclonal Antibody

UnitProt No.
Q13241

NCBI Accession No.
NP_002253

Alternative Names
Killer cell lectin like receptor D1, Natural killer cells antigen CD94, KP43, Killer cell lectin-like receptor subfamily D member 1, NK cell receptor

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 KLRD1 (32-179aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, FACS

Usage
The antibody has been tested by ELISA, Western blot analysis and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Human CD94/KLRD1 antibody

Catalog Number: ATGA0487

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

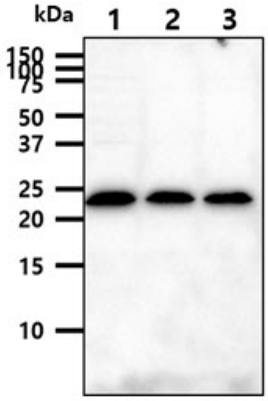
CD94 (Cluster of Differentiation 94), also known as killer cell lectin-like receptor subfamily D, member 1 (KLRD1) is a human gene. The protein encoded by CD94 gene is a lectin, cluster of differentiation and a receptor that is involved in cell signaling and is expressed on the surface of natural killer cells in the innate immune system. CD94 pairs with the NKG2 molecule as a heterodimer. The CD94/NKG2 complex, on the surface of natural killer cells interacts with Human Leukocyte Antigen (HLA) -E on target cells.

General References

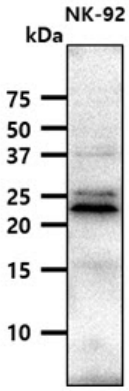
Cheent KS., et al. (2013) pnas. 110(42): 16981-16986.
Shum BP., et al. (2008) Nat Immunol. 168(1): 240-252.
Fang M., et al. (2011) Immunity 34(4): 579-589.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KLRD1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: K562 cell lysate
Lane 2.: MCF7 cell lysate
Lane 3.: A549 cell lysate

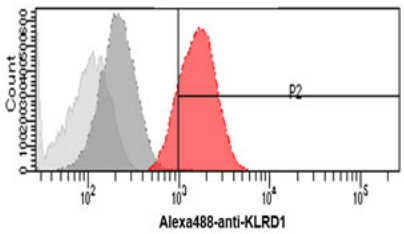


The NK-92 cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KLRD1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Flow cytometry (FACS)

Human CD94/KLRD1 antibody

Catalog Number: ATGA0487



Flow cytometry analysis of KLRD1 in PBMC cells. The cell was stained with ATGA0487 at 2-5ug for 1x106cells (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).