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Human CD158f/KIR2DL5A antibody

Catalog Number: ATGA0525

PRODUCT INFORMATION

Catalog number

ATGA0525

Clone No.

AT11C11

Product type

Monoclonal Antibody

UnitProt No.

Q8N109

NCBI Accession No.

NP 065396

Alternative Names

Killer cell immunoglobulin like receptor two Ig domains and long cytoplasmic tail 5A, Killer cell immunoglobulin-like receptor 2DL5A, KIR2DL5A, CD158F, KIR2DL5A.1, KIR2DL5A.3

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 KIR/CD158 (22-238aa) purified from E.coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS

Usage

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

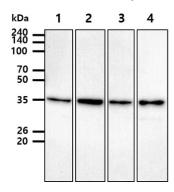
KIR/CD158, also known as killer cell immunoglobulin-like receptor 2DL5A, is a type I transmembrane glycoprotein that belongs to the killer cell Ig-like receptor (KIR) family. It is detected on the cell surface as a monomer that, upon tyrosine phosphorylation, recruits the Srchomology region 2-containing protein tyrosine phosphatase-2, It is thus an inhibitory receptor gathering a combination of genetic, structural, and functional features unique among KIR, which suggests that it plays a specialized role in innate immunity.

General References

Vilches, C., et al. (2000) J. Immunol. 164: 5797-5804. Elfishawi SM., et al. (2017) Hum. Immunol. 78 (11-12), 684-691.

DATA

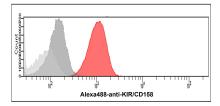
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KIR/CD158 antibody (1:10000). 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.: MCF7 cell lysate Lane 3.: HepG2 cell lysate Lane 4.: K562 cell lysate

Flow cytometry (FACS)



Flow cytometry analysis of KIR/CD158 in PBMC. The cell was stained with ATGA0525 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 (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

