

# Human CD158f/KIR2DL5A antibody

Catalog Number: ATGA0525

## PRODUCT INFORMATION

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**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

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**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 Src homology 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.

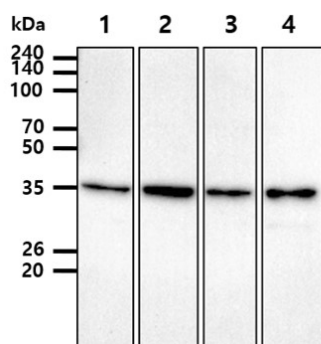
### General References

Vilches, C., et al. (2000) J. Immunol. 164: 5797-5804.

Elfishawi SM., et al. (2017) Hum. Immunol. 78 (11-12), 684-691.

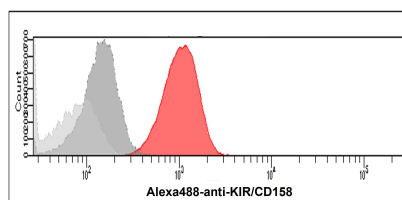
## DATA

### 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<sup>6</sup> 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).