

# ABflo® 647 Rabbit anti-Human CD158 (KIR2DL1/S1/S2/S3/S5) mAb

Catalog No.: A26405

## Basic Information

### Observed MW

**Calculated MW**  
34kDa

**Category**  
Primary antibody

**Applications**  
FC

**Cross-Reactivity**  
Human

**CloneNo number**  
ARC67708-ABflo647

**Conjugate**  
ABflo® 647. Ex:648nm. Em:664nm.

## Recommended Dilutions

**FC** 5 µl per 10<sup>6</sup> cells in  
100 µl volume

## Background

Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response.

## Immunogen Information

Gene ID	Swiss Prot
3810/3808/3806/3802/100132285	Q14954/Q14953/Q14952/P43631/P43626

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 22-245 of human CD158 (NP\_055327.1).

### Synonyms

NKAT9; CD158G□CD158A□NKAT1; CD158H; CD158J; NKAT5

## Contact

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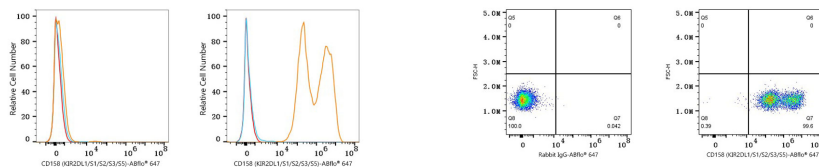
## Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

### Storage

Store at 2-8°C. Avoid freeze.  
Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data



Flow cytometry: 1X10<sup>6</sup> 293T cells (negative control, left) and 293T-CD158 [KIR2DS1] (Transfection, right) cells were surface-stained with ABflo® 647 Rabbit anti-Human CD158 (KIR2DL1/S1/S2/S3/S5) mAb (A26405, 5 µl/Test, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 µl/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry: 1X10<sup>6</sup> 293T-CD158 [KIR2DS1] (Transfection) cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 µl/Test, left) or ABflo® 647 Rabbit anti-Human CD158 (KIR2DL1/S1/S2/S3/S5) mAb (A26405, 5 µl/Test, right).