

## Anti-CD300A Antibody (9F620)

### Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9F620
Purification:	Protein A

### Applications

Verified Activity:	Flow cytometric analysis of Human CD300A expression on Human whole blood monocytes. Cells were stained with purified anti-Human CD300A, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable monocytes.
Application:	FCM
Recommended	FCM: 1:25-1:100

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein: Human CD300A Protein (TMPY-02013)
Antigen Species:	Human
Synonyms:	CMRF35-H;CMRF-35-H9;IRC1/IRC2;IRC2;CD300a molecule;IRp60;IGSF12;CLM-8;CMRF35-H9;IRC1;CMRF35H9;CMRF-35H;CMRF35H
Biology Area:	ITIM/ITAM Immunoreceptors and Related Molecules

### Research Background

CMRF35-like molecule 8, also known as CD300 antigen-like family member A, CMRF35-H9, Immunoglobulin superfamily member 12, Inhibitory receptor protein 60, NK inhibitory receptor, CD300a and CMRF35H, is a single-pass type I membrane protein which belongs to the CD300 family. The CD300 family of myeloid immunoglobulin receptors includes activating ( CD300b, CD300e ) and inhibitory members ( CD300a, CD300f ), as well as molecules presenting a negative charge within their transmembrane domain ( CD300c, CD300d ). CD300A / IGSF12 is expressed not only by natural killer (NK) cells but also by T-cell subsets, B-cells, dendritic cells, mast cells, granulocytes and monocytes. It contains onelg-like V-type ( immunoglobulin-like ) domain. CD300A / IGSF12 is an inhibitory receptor that may contribute to the down-regulation of cytolytic activity in natural killer (NK) cells, and to the down-regulation of mast cell degranulation. CD300c is a functional immune receptor able to deliver activating signals upon ligation in RBL-2H3 mast cells. CD300c signaling is partially mediated by a direct association with the immune receptor tyrosine-based activation motif-bearing adaptor FcεRγ. CD300a and CD300c play an important role in the cross-regulation of TNF-alpha and IFN-alpha secretion from plasmacytoid dendritic cells (pDCs).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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