

# Product datasheet

info@arigobio.com

# ARG23469 anti-CD300a + CD300c antibody [P192]

Package: 100 μg Store at: -20°C

## **Summary**

Product Description Mouse Monoclonal antibody [P192] recognizes CD300a + CD300c

Mouse anti Human CD300a antibody, clone P192 specifically recognizes human CD300a, otherwise known as IRp60 (inhibitory receptor protein 60), a 60kDa transmembrane glycoprotein expressed by natural killer cells (NK), T and B cell subsets, monocytes, neutrophils, macrophages, granulocytes, dendritic cells (DC) and mast cells. Studies have shown that the cross-linking of CD300a on NK results in a down-regulation of their cytolytic activity, whilst cross-linking of CD300a on mast cells, inhibits IgE-induced degranulation and SCF-mediated survival. Furthermore, cross-linking of CD300a on the surface of eosinophils has been shown to significantly inhibit their survival, chemotaxis and activation in response to certain inflammatory cytokines, whilst eosinophil-derived MBP (major basic protein) and EDN (neurotoxin), can down-regulate CD300a expression on mast cells in vitro.

Tested Reactivity Hu

Tested Application FACS

Host Mouse

**Clonality** Monoclonal

Clone P192

Isotype IgG2a

Target Name CD300a + CD300c

Species Human

Immunogen Polyclonal population of NK cells

Conjugation Un-conjugated

Alternate Names CMRF-35-H9; Inhibitory receptor protein 60; NK inhibitory receptor; CMRF35-H; CMRF35H9; CD antigen

CD300a; IRC1/IRC2; IGSF12; CMRF35H; IRp60; IgSF12; CMRF35-like molecule 8; CMRF35-H9; CMRF-35H; CD300 antigen-like family member A; CLM-8; IRC1; IRC2; Immunoglobulin superfamily

member 12

### **Application Instructions**

Application table	Application	Dilution
	FACS	1:25 - 1:200

Application Note FACS: Use 10  $\mu$ l of the suggested working dilution to label 10^6 cells in 100  $\mu$ l.

\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

# **Properties**

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 0.09% Sodium azide.

Preservative 0.09% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol CD300A

Gene Full Name CD300a molecule

Background This gene encodes a member of the CD300 glycoprotein family of cell surface proteins found on

leukocytes involved in immune response signaling pathways. This gene is located on chromosome 17 in a cluster with all but one of the other family members. Multiple transcript variants encoding different

isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Function Inhibitory receptor which may contribute to the down-regulation of cytolytic activity in natural killer

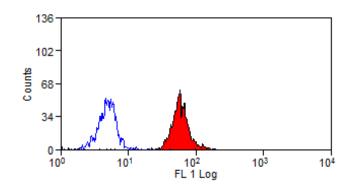
(NK) cells, and to the down-regulation of mast cell degranulation. [UniProt]

Calculated Mw 33 kDa

PTM Phosphorylated on tyrosine.

N-glycosylated. [UniProt]

#### **Images**



### ARG23469 anti-CD300a + CD300c antibody [P192] FACS image

Flow Cytometry: Human peripheral blood monocytes stained with ARG23469 anti-CD300a + CD300c antibody [P192] followed by Rabbit F(ab')2 anti Mouse IgG (FITC).