

# Product datasheet

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ARG62811 anti-CD300a + CD300c antibody [MEM-260] Package: 100 μg Store at: -20°C

## **Summary**

Product Description Mouse Monoclonal antibody [MEM-260] recognizes CD300a + CD300c

Tested Reactivity Hu

Tested Application FACS, WB

Specificity The clone MEM-260 reacts with CD300a, a 60 kDa leukocyte transmembrane glycoprotein expressed on

human granulocytes, monocytes, neutrophils, NK cells, mast cells and dendritic cells, 25% of circulating

T cells and 15% of circulating B cells.

Host Mouse

Clonality Monoclonal
Clone MEM-260

Isotype IgG1

Target Name CD300a + CD300c

Species Human

Immunogen HPB human acute lymphoid leukemia cell line

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	2 μg/ml
	WB	Assay-dependent
Application Note	WB: Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Application note: Non-reducing condition.  * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	WB: Positive control: HPB. Negative control: Jurkat and Raji.	

# **Properties**

Form Liquid

Purification Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Purity > 95% (by SDS-PAGE)

Buffer PBS (pH 7.4) and 15 mM Sodium azide

Preservative 15 mM 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**

Database links <u>GeneID: 11314 Human</u>

Swiss-port # Q9UGN4 Human

Gene Symbol CD300A

Gene Full Name CD300a molecule

Background CD300a (CMRF-35H, IRp60) is a non-MHC-specific inhibitory receptor of immunoglobulin superfamily,

which contains three immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that associate with SH2-containing phosphatases SHP-1 and SHP-2. CD300a is expressed on many cell types including T cells, NK cells, neutrophils, eosinophils or mast cells. Its triggering inhibits activating signals such as those of IL5, GM-CSF or eotaxin, as well as supresses mast cell degranulation or NK cell cytotoxic

activity.

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]

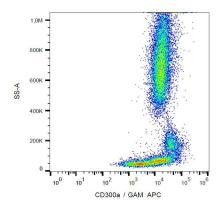
Research Area Immune System antibody

Calculated Mw 33 kDa

PTM Phosphorylated on tyrosine.

N-glycosylated.

#### **Images**



# ARG62811 anti-CD300a + CD300c antibody [MEM-260] FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG62811 anti-CD300a + CD300c antibody [MEM-260], followed by incubation with APC labelled Goat anti-Mouse secondary antibody.