

## 30-1352: Anti-CD300a Monoclonal Antibody (Clone:MEM-260)

|                                |   |
|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal                                  |
| <b>Clone Name :</b>            | MEM-260                                     |
| <b>Application :</b>           | FACS  |
| <b>Reactivity :</b>            | Human                                       |
| <b>Gene :</b>                  | CD300A                                      |
| <b>Gene ID :</b>               | 11314                                       |
| <b>Uniprot ID :</b>            | Q9UGN4                                      |
| <b>Format :</b>                | Purified                                    |
| <b>Alternative Name :</b>      | CD300A,CMRF35H,IGSF12,HSPC083               |
| <b>Isotype :</b>               | Mouse IgG1                                  |
| <b>Immunogen Information :</b> | HPB human acute lymphoid leukemia cell line |

### Description

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 suppresses mast cell degranulation or NK cell cytotoxic activity.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 0.1 mg  |
| <b>Purification :</b>      | Purified by protein-A affinity chromatography |
| <b>Storage condition :</b> | Store at 2-8°C. Do not freeze.                |

### Application Note

**Flow Cytometry** *Recommended dilution:* 2 Åµg/ml

**Western Blotting** *Positive material:* HPB cell line

*Negative material:* JURKAT human cell line, RAJI human cell line

*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.

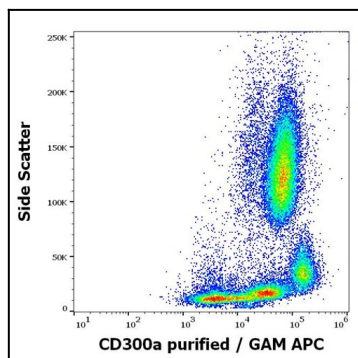


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD300a (MEM-260) purified antibody (concentration in sample 4 µg/ml) GAM APC.

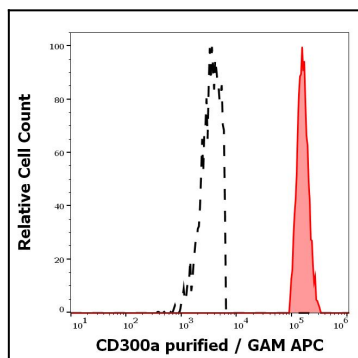


Figure 2: Separation of human monocytes (red-filled) from CD300a negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD300a (MEM-260) purified antibody (concentration in sample 4 µg/ml) GAM APC.