

## Datasheet

### CD300A monoclonal antibody, clone MEM-260 (PE)

**Catalog Number:** MAB4404

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against native CD300A.

**Clone Name:** MEM-260

**Immunogen:** Native purified CD300A from human HPB acute lymphoid leukaemia cell line.

**Host:** Mouse

**Theoretical MW (kDa):** 60

**Reactivity:** Human

**Applications:** Flow Cyt, WB  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** This antibody 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.

**Form:** Liquid

**Conjugation:** PE

**Isotype:** IgG1

**Recommend Usage:** Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10<sup>6</sup> cells in a suspension)  
The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS (0.2% BSA, 0.09% sodium azide)

**Storage Instruction:** Store in the dark at 4 °C. Do not freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 11314

**Gene Symbol:** CD300A

**Gene Alias:** CMRF-35-H9, CMRF-35H, CMRF35H, CMRF35H9, IGSF12, IRC1, IRC2, IRp60

**Gene Summary:** The CMRF35 antigen (CMRF35A; MIM 606786), which was identified by reactivity with a monoclonal antibody, is present on monocytes, neutrophils, and some T and B lymphocytes. CMRF35H is recognized by the same antibody and is distinct from CMRF35 (Green et al., 1998 [PubMed 9701027]).[supplied by OMIM]

#### References:

1. The CD300a (IRp60) inhibitory receptor is rapidly up-regulated on human neutrophils in response to inflammatory stimuli and modulates CD32a (FcγRIIa) mediated signaling. Alvarez Y, Tang X, Coligan JE, Borrego F. Mol Immunol. 2008 Jan;45(1):253-8. Epub 2007 Jun 22.
2. Molecular analysis and solution structure from small-angle X-ray scattering of the human natural killer inhibitory receptor IRp60 (CD300a). Dimasi N, Roesle M, Moran O, Candiano G, Svergun DI, Biassoni R. Int J Biol Macromol. 2007 Feb 20;40(3):193-200. Epub 2006 Jul 26.
3. Abrogation of allergic reactions by a bispecific antibody fragment linking IgE to CD300a. Bachelet I, Munitz A, Levi-Schaffer F. J Allergy Clin Immunol. 2006 Jun;117(6):1314-20.