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## Anti-Human CD300e (IREM-2) Functional Grade Purified


**Catalog Number:** 16-3007

**Also known as:** IREM2, CLM-2

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Anti-Human CD300e (IREM-2)  
Functional Grade Purified  
 **Catalog Number:** 16-3007  
**Clone:** UP-H2  
**Concentration:** 1 mg/mL  
**Host/Isotype:** Mouse IgG1  
**Handling Conditions:** Use in sterile environment.  
**Endotoxin:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.



**Formulation:** aqueous buffer, no sodium azide  
**Temperature Limitation:** Store at 2-8°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

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### Description

The monoclonal antibody UP-H2 recognizes human IREM-2 (immune receptor expressed in monocytic derived cells) also known as LMIR6, and unofficially CD300E and CD300LE. It is a member of the CMRF-35 family. This 34 kDa Ig-like containing receptor is an activating receptor and through its charged residues in the cytoplasmic domain interacts with ITAM containing adaptor proteins like DAP12. Expression is found exclusively on monocytes and myeloid DC's. Expression may be transient as differentiation of monocytes leads to down regulation of IREM-2 yet expression is found on mature DCs. It has been also noted that myeloid cell lines such as THP-1 and U937 do not express IREM-2.

In vitro addition of UP-H2 antibody either soluble or crosslinked stimulates monocytes.

### Applications Reported

This UP-H2 antibody has been reported for use in flow cytometric analysis and functional assays.

### Applications Tested

This UP-H2 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (ug) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Alvarez-Errico D, Aguilar H, Kitzig F, Brckalo T, Sayós J, López-Botet M. IREM-1 is a novel inhibitory receptor expressed by myeloid cells. *Eur J Immunol.* 2004 Dec;34(12):3690-701.

Aguilar H, Alvarez-Errico D, García-Montero AC, Orfao A, Sayós J, López-Botet M. Molecular characterization of a novel immune receptor restricted to the monocytic lineage. *J Immunol.* 2004 Dec 1;173(11):6703-11. (UP-H2, FC, IP, WB PubMed)

### Related Products

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.8.1)