

Purified anti-human CD83 Antibody

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|--------------------------|---|
| Catalog# / Size | 305301 / 25 µg 305302 / 100 µg |
| Clone | HB15e |
| Regulatory Status | RUO |
| Other Names | HB15 |
| Isotype | Mouse IgG1, κ |
| Description | CD83 is a 43 kD single chain type I glycoprotein also known as HB15. A member of the immunoglobulin superfamily, CD83 is expressed on a subset of dendritic cells, Langerhans cells, and weakly on activated lymphocytes. Although CD83 is thought to play a role in antigen presentation and/or lymphocyte activation, the precise function of this protein is unknown. CD83 is considered to be a useful marker for mature dendritic cells. |

Product Details

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| Verified Reactivity | Human |
| Reported Reactivity | African Green, Baboon, Pigtailed Macaque, Rhesus |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Preparation | The antibody was purified by affinity chromatography. |
| Concentration | 0.5 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. |
| Application | FC - Quality tested IHC-F - Reported in the literature. not verified in house |
| Recommended Usage | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |
| Application Notes | Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections ⁴ . |
| Application References (PubMed link indicates BioLegend citation) | <ol style="list-style-type: none">1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press New York.2. Zhou L, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3821.3. Cao W, <i>et al.</i> 2005. <i>Biochem. J.</i> 385:85.4. Lore K, <i>et al.</i> 2002. <i>AIDS</i> 16:683. (IHC)5. Cho H, <i>et al.</i> 2007. <i>Physiol Genomics</i> doi:10.1152/physiolgenomics.00051.2006 |
| Product Citations | <ol style="list-style-type: none">1. Alcántara-Hernández M <i>et al.</i> 2017. <i>Immunity.</i> 47(6):1037-1050 . PubMed2. Mask E, <i>et al.</i> 2022. <i>Front Cell Infect Microbiol.</i> 12:880860. PubMed3. Parker R, <i>et al.</i> 2020. <i>bioRxiv.</i> . PubMed4. Olah M, <i>et al.</i> 2020. <i>Nat Commun.</i> 4.714583333. PubMed5. Eriksson E, <i>et al.</i> 2017. <i>Clin Cancer Res.</i> 5.018055556. PubMed |
| RRID | AB_314509 (BioLegend Cat. No. 305301) AB_314510 (BioLegend Cat. No. 305302) |

Antigen Details

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|---------------------------|---|
| Structure | Ig superfamily, single chain transmembrane glycoprotein, 43 kD |
| Distribution | Dendritic cells, Langerhan cells, activated B and T cells |
| Cell Type | B cells, Dendritic cells, Langerhans cells, T cells |
| Biology Area | Costimulatory Molecules, Immunology |
| Molecular Family | CD Molecules |
| Antigen References | 1. Kozlow E, <i>et al.</i> 1993. <i>Blood</i> 81:454. 2. Zhou L, <i>et al.</i> 1992. <i>J. Immunol.</i> 149:735. 3. Zhou L, <i>et al.</i> 1995. <i>Blood</i> 86:3295. |
| Gene ID | 9308 |

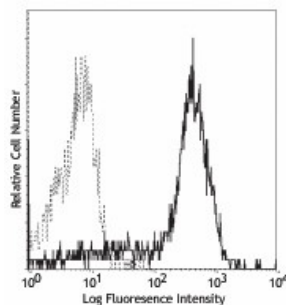
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD83, Biotin anti-human CD83, FITC anti-human CD83, PE anti-human CD83, PE/Cyanine5 anti-human CD83, Purified anti-human CD83, Alexa Fluor® 488 anti-human CD83, Alexa Fluor® 647 anti-human CD83, PerCP/Cyanine5.5 anti-human CD83, Brilliant Violet 421™ anti-human CD83, PE/Cyanine7 anti-human CD83, PE/Dazzle™ 594 anti-human CD83, APC/Cyanine7 anti-human CD83, Brilliant Violet 711™ anti-human CD83, APC/Fire™ 750 anti-human CD83, Brilliant Violet 605™ anti-human CD83, Brilliant Violet 785™ anti-human CD83, TotalSeq™-A0359 anti-human CD83, TotalSeq™-C0359 anti-human CD83, TotalSeq™-B0359 anti-human CD83, TotalSeq™-D0359 anti-human CD83

Product Data



Monocyte-derived dendritic cells stained with HB15e PE

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