



11-230-C100

Monoclonal Antibody to CD55 Purified Antibody (0.1 mg)

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| Clone: | MEM-118 |
| Isotype: | Mouse IgM |
| Specificity: | The antibody MEM-118 recognizes an epitope in SCR4 domain of CD55 (Decay accelerating factor, DAF), a 60-70 kDa glycosylphosphatidylinositol (GPI)-anchored single chain glycoprotein. CD55 is widely expressed on hematopoietic and on many non-hematopoietic cells; it is weakly present on NK cells. HLDA V; WS Code AS S016 |
| Regulatory Status: | RUO |
| Immunogen: | HPB-ALL human T cell line |
| Species Reactivity: | Human, Non-Human Primates |
| Application: | Flow Cytometry Recommended dilution: 10 µg/ml Immunoprecipitation Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml |
| Purity: | > 95% (by SDS-PAGE) |
| Purification: | Purified by precipitation and chromatography |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0 |
| Storage / Stability: | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD55 (decay-accelerating factor, DAF) is a GPI-anchored membrane glycoprotein that protects autologous cells from classical and alternative pathway of complement cascade. Bidirectional interactions between CD55 and CD97 are involved in T cell regulation and CD55 can still regulate complement when bound to CD97. In tumours, besides protection against complement, CD55 promotes neoangiogenesis, tumorigenesis, invasiveness and evasion of apoptosis. |

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**Antibodies****References:**

- *Miwa T, Maldonado MA, Zhou L, Sun X, Luo HY, Cai D, Werth VP, Madaio MP, Eisenberg RA, Song WC: Deletion of decay-accelerating factor (CD55) exacerbates autoimmune disease development in MRL/lpr mice. *Am J Pathol.* 2002 Sep;161(3):1077-86.
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- *Abbott RJ, Spendlove I, Roversi P, Fitzgibbon H, Knott V, Teriete P, McDonnell JM, Handford PA, Lea SM: Structural and functional characterization of a novel T cell receptor co-regulatory protein complex, CD97-CD55. *J Biol Chem.* 2007 Jul 27;282(30):22023-32.
- *VanLandingham JW, Cekic M, Cutler S, Hoffman SW, Stein DG: Neurosteroids reduce inflammation after TBI through CD55 induction. *Neurosci Lett.* 2007 Sep 25;425(2):94-8.
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- *Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).
- *Angelisová P, Drbal K, Horejsí V, Cerný J: Association of CD10/neutral endopeptidase 24.11 with membrane microdomains rich in glycosylphosphatidylinositol-anchored proteins and Lyn kinase. *Blood.* 1999 Feb 15;93(4):1437-9.

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