



CD45 Mouse Monoclonal Antibody

SKU: EAB-061

Recombinant mouse monoclonal antibody (Clone ID: 3B2), expressed in Chinese Hamster Ovary cells (CHO), is capable of strong binding to human CD45.

CD45, is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This CD45 monoclonal antibody is developed from phage display technologies. It is a human recombinant monoclonal antibody that binds specifically to human CD45, and it can neutralize the bioactivity of human CD45.

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| species reactivity | human |
| recombinant | expressed in Chinese Hamster Ovary cells (CHO). |
| applications | ELISA, WB, IHC, Flow Cyt, neutralization |
| antibody form | affinity purified immunoglobulin |
| immunogen | human CD45 |
| clone | 3B2 |
| purity | >95% (SDS-PAGE) |
| form | 0.015 M PBS, 0.05% NaN ₃ , pH7.2 |
| concentration | ~ 2 mg/ml |
| isotype | mouse IgG1, k |
| Fc-engineered | n/a; wild type Fc |

- Store at -20°C. Recombinant monoclonal antibodies are guaranteed stable for 12 months when properly stored.

References:

1. Gustafsson K, Rhee C, Frodermann V, Scadden EW, Li D, Iwamoto Y, Palchadhuri R, Hyzy SL, Boitano AE, Nahrendorf M, Scadden DT. Clearing and replacing tissue-resident myeloid cells with an anti-CD45 antibody-drug conjugate. *Blood Adv.* 2023. 7(22):6964-6973.
2. Jäger MD, Vondran FW, Ramackers W, Röseler T, Schlitt HJ, Bektas H, Klempnauer J, Timrott K. A Depleting Anti-CD45 Monoclonal Antibody as Isolated Conditioning for Bone Marrow Transplantation in the Rat. *PLoS One.* 2016. 11(5):e0154682.
3. Wu CH, Hsieh SC, Yu HS, Lee KJ, Lu MC, Tsai CY, Yu CL. Anti-CD45 antibody enhances lipoxygenase pathway of human naïve mononuclear cells and cyclooxygenase pathway of neutrophils. *Inflamm Res.* 2006. 55:92-98.