



## CD45 Human Monoclonal Antibody

SKU: EAB-062

Recombinant human 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.

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 <sub>3</sub> , pH7.2
concentration	~ 2 mg/ml
isotype	human 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, Palchoudhuri 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, Schliitt 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.