

CD8 (SK1)

Type	Size	Catalog number
unconjugated	100µg	110901
	500µg	110903
FITC	25 tests	110914
	100 tests	110915
	200 tests	110916

Antigen:	CD8α
Immunogen:	Human peripheral blood T cells
Host/Isotype:	Mouse, IgG1, k
Reactivity:	Human. Cross-reactivity: African Green, Baboon, Chimpanzee, Cynomolgus, Rhesus, Pigtailed Macaque, Sooty Mangabey
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09%NaN ₃ (unconjugated) PBS, pH7.2, 0.09% NaN ₃ and 0.2% (w/v) BSA (conjugated)
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

Antigen Information

The clone SK1 specifically binds with a 32-34kDa type I transmembrane glycoprotein of human cells commonly known as CD8a. It is a member of immunoglobulin superfamily. The CD8α forms either a homodimer (2 alpha chains) or a heterodimer with CD8β and is expressed on the surface of cytotoxic T cells, and sub-sets of NK cells, cortical thymocytes, and also on some dendritic cells. CD8 functions as a co-receptor for T cell receptor and specifically binds to class I MHC for antigen recognition and T cell activation. It has the cross-reactive binding affinity with the CD8 cell surface antigen expressing in several non-human primates, including Baboon, Chimpanzee, Cynomolgus and Rhesus.

References

1. Arens, R, et al. 2010. *Immunol Rev.* 235:190.
2. Kared, H, et al. 2014. *Curr Opin Immunol.* 29C:79.
3. Welte, K, et al. 1983. *J Immunol.* 131: 2356.
4. Zarlring, J.M, et al. 1980. *Nature.* 288:384.
5. Permar SR etal, 2003. *J. virol.* 77:4396.
6. Verstrepen, BE., 2014. *PLoS One.*9:e95103.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.