

## CD8 (SK1)

### Analyte Specific Reagent (ASR)\*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
FITC	50	5	250	4109012
	100	5	500	4109015
APC	50	5	250	4109042
	100	5	500	4109045
PerCP	50	5	250	4109032
	100	5	500	4109035
PE	50	5	250	4109022
	100	5	500	4109025
PE-Cyanine7	50	5	250	4109082
	100	5	500	4109085
APC-Cyanine7	50	5	250	4109092
	100	5	500	4109095
PerCP-Cyanine5.5	50	5	250	4109062
	100	5	500	4109065
APC-iFluor™700	50	5	250	4109172
	100	5	500	4109175
iFluor™700	50	5	250	4109192
	100	5	500	4109195

**Antigen:** CD8α  
**Immunogen:** Human peripheral blood T cells  
**Host/Isotype:** Mouse, IgG1,κ  
**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<sub>3</sub> and 0.2% (w/v) BSA  
**Storage:** Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**  
**Applications:** Flow Cytometry.

### Antigen Information

The clone SK1 specifically binds with a 32-34kDa type I transmembrane glycoprotein of human cells commonly known as CD8α. 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. Zarling, J.M, et al. 1980. *Nature*. 288:384.
5. Permar SR et al, 2003. *J. virol.* 77:4396.
6. Verstrepen, BE., 2014. *PloS One*.9:e95103.

\*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.