

## TECHNICAL DATA SHEET

### CyFlow™ CD82 PE Anti-Hu; Clone C33

**REF** CP903161

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

<b>Antigen</b>	CD82
<b>Alternative Names</b>	R2I 4F9, C33
<b>Clone</b>	C33
<b>Clonality</b>	monoclonal
<b>Format</b>	PE
<b>Host / Isotype</b>	Mouse / IgG2a
<b>Species Reactivity</b>	Human
<b>Negative Species Reactivity</b>	—
<b>Quantity</b>	100 tests
<b>Immunogen</b>	C91/PL (human HTLV-1+ T cell line)

### Specificity

The mouse monoclonal antibody C33 recognizes CD82 antigen, a widely expressed cell surface protein of the tetraspanin family. CD82 is also found in endosome/lysosome compartments.

#### Contact Information:

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## Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

<b>Storage</b>	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
<b>Stability</b>	Do not use after expiration date stamped on vial label.

## Background Information

CD82 (KAI1), a member of the tetraspanin family, forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules. These complexes influence adhesion, morphology, activation, proliferation and differentiation of B, T and other cells. CD82 regulates cytoskeleton rearrangement and may participate in the turnover of the tetraspanin complex members. Besides in the plasma membrane, CD82 is localized also in endosome/lysosome compartments. Tumor-suppressive roles of CD82 have been demonstrated.

## References

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- Imai T, Yoshie O: C33 antigen and M38 antigen recognized by monoclonal antibodies inhibitory to syncytium formation by human T cell leukemia virus type 1 are both members of the transmembrane 4 superfamily and associate with each other and with CD4 or CD8 in T cells. J Immunol. 1993 Dec 1; 151(11):6470-81. < PMID: 8245480 >

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- Imai T, Kakizaki M, Nishimura M, Yoshie O: Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82. J Immunol. 1995 Aug 1; 155(3):1229-39. < PMID: 7636191 >
- Ueda T, Ichikawa T, Tamaru J, Mikata A, Akakura K, Akimoto S, Imai T, Yoshie O, Shiraishi T, Yatani R, Ito H, Shimazaki J: Expression of the KAI1 protein in benign prostatic hyperplasia and prostate cancer. Am J Pathol. 1996 Nov; 149(5):1435-40. < PMID: 8909232 >
- Escola JM, Kleijmeer MJ, Stoorvogel W, Griffith JM, Yoshie O, Geuze HJ: Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes. J Biol Chem. 1998 Aug 7; 273(32):20121-7. < PMID: 9685355 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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