



1P-559-T100

## Monoclonal Antibody to CD82 Phycoerythrin (PE) conjugated (100 tests)

<b>Clone:</b>	C33
<b>Isotype:</b>	Mouse IgG2a
<b>Specificity:</b>	The antibody C33 reacts with CD82, a widely expressed cell surface protein of the tetraspanin family. CD82 is also found in endosome/lysosome compartments.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	C91/PL (human HTLV-1+ T cell line)
<b>Species Reactivity:</b>	Human, Other not tested
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 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.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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. Tumour-suppressive roles of CD82 have been demonstrated.

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**Antibodies****References:**

- \*Fukudome K, Furuse M, Imai T, Nishimura M, Takagi S, Hinuma Y, Yoshie O: Identification of membrane antigen C33 recognized by monoclonal antibodies inhibitory to human T-cell leukemia virus type 1 (HTLV-1)-induced syncytium formation: altered glycosylation of C33 antigen in HTLV-1-positive T cells. *J Virol.* 1992 Mar;66(3):1394-401.
- \*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.
- \*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.
- \*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.
- \*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.
- \*Schatzmaier P, Supper V, Göschl L, Zwirzitz A, Eckerstorfer P, Ellmeier W, Huppa JB, Stockinger H: Rapid multiplex analysis of lipid raft components with single-cell resolution. *Sci Signal.* 2015 Sep 22;8(395):rs11

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