Datasheet for ABIN2749189

anti-CD82 antibody

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Overview

Quantity:	0.1 mg
Target:	CD82
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD82 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC), Functional Studies (Func)

Product Details

Immunogen:	C91/PL (human HTLV-1+ T cell line)
Clone:	C33
Isotype:	IgG2a
Specificity:	The mouse monoclonal antibody C33 recognizes an extracellular/luminal epitope of CD82, a widely expressed cell surface protein of the tetraspanin family. CD82 is also found in endosome/lysosome compartments.
Cross-Reactivity (Details):	Human, Other not tested
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Product Details

Endotoxin Level:	Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

Target Details

Target:	CD82
Alternative Name:	CD82 (CD82 Products)
Background:	CD82 Molecule,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.,R2, 4F9, C33, IA4, ST6, GR15, KAI1, SAR2, TSPAN27
Gene ID:	3732
UniProt:	P27701
Pathways:	p53 Signaling

Application Details

Application Notes:	Functional application: In human MOLT-4 T-cell line the antibody C33 inhibits syncytium formation induced by coculture with human T-cell leukemia virus type 1 (HTLV-1)-positive human T-cell lines. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Schatzlmaier, Supper, Göschl, Zwirzitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid multiplex analysis of lipid raft components with single-cell resolution." in: **Science signaling**, Vol. 8, Issue 395, pp. rs11, (2015) (PubMed).

Escola, Kleijmeer, Stoorvogel, Griffith, Yoshie, Geuze: "Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes." in: **The Journal of biological chemistry**, Vol. 273, Issue 32, pp. 20121-7, (1998) (PubMed).

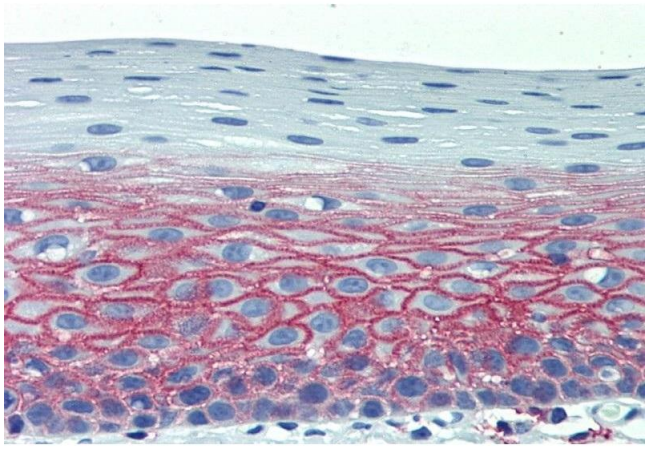
Ueda, Ichikawa, Tamaru, Mikata, Akakura, Akimoto, Imai, Yoshie, Shiraishi, Yatani, Ito, Shimazaki: "Expression of the KAI1 protein in benign prostatic hyperplasia and prostate cancer. " in: **The American journal of pathology**, Vol. 149, Issue 5, pp. 1435-40, (1996) (PubMed).

Imai, Kakizaki, Nishimura, Yoshie: "Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 155, Issue 3, pp. 1229-39, (1995) (PubMed).

Imai, Yoshie et al.: "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 ..." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 151, Issue 11, pp. 6470-81, (1994) (PubMed).

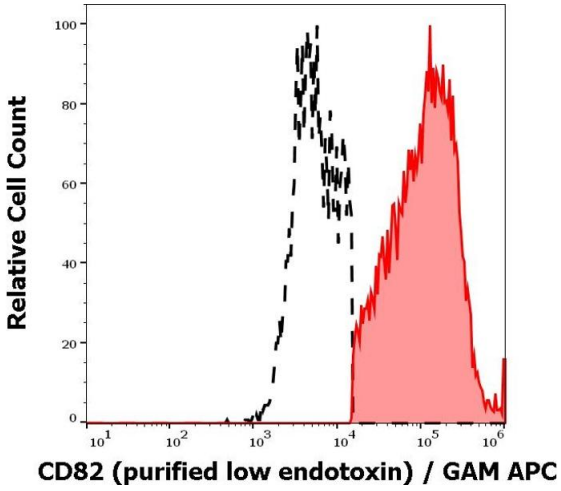
There are more publications referencing this product on: Product page

Images



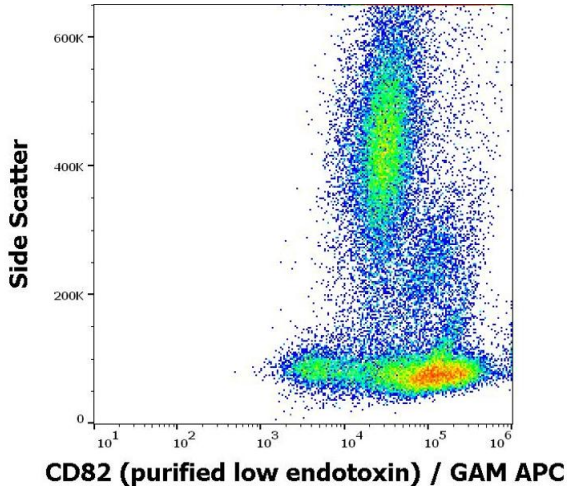
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining of human tonsil (paraffin-embedded sections) with anti-CD82 (C33).



Flow Cytometry

Image 2. Separation of human CD82 positive lymphocytes (red-filled) from CD82 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD82 (C33) purified antibody (low endotoxin, concentration in sample 1 µg/mL) GAM APC.



Flow Cytometry

Image 3. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD82 (C33) purified antibody (low endotoxin, concentration in sample 1 µg/mL) GAM APC.

