

Anti-CD81 (TAPA1) mAb-ALP

CODE No.	MEX003-12
CLONALITY	Monoclonal
CLONE	A103-10
ISOTYPE	Mouse IgG2a κ
QUANTITY	50 μ L
SOURCE	Purified IgG from hybridoma supernatant
IMMUNOGEN	Human prostate carcinoma cell line (PC3) derived exosomes (prepared by ultracentrifugation from cultured supernatant)
FORMURATION	50 mM Tris-HCl, 100 mM NaCl, 1% BSA, 0.1% ProClin150 containing stabilizers.
STORAGE	This antibody solution is stable for one year from the date of purchase when stored at 4°C.

APPLICATION-CONFIRMED

Sandwich CLEIA 1:2,000

SPECIES CROSS REACTIVITY on Sandwich CLEIA

Species	Human	Monkey	Mouse	Rat	Hamster
Samples	HT29 cell culture supernatant, serum	Not tested	Not tested	Not tested	Not tested
Reactivity	+				

Entrez Gene ID 975 (Human)

REFERENCES

- 1) Melo, S. A., *et al.*, *Nature* **523**, 177-182 (2015)
- 2) Yoshioka, Y., *et al.*, *Nat. Commun.* **5**, 3591 (2014)
- 3) Pols, M. S. and Klumperman, J., *Exp. Cell Res.* **315**, 1584-1592 (2009)
- 4) Simons, M. and Raposo, G., *Curr. Opin. Cell Biol.* **21**, 575-581 (2009)

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RELATED PRODUCTSAntibodies

MEX001-3	Anti-CD9 mAb (A100-4)
MEX001-4	Anti-CD9 mAb-FITC (A100-4)
MEX001-6	Anti-CD9 mAb-Biotin (A100-4)
MEX001-12	Anti-CD9 mAb-ALP (A100-4)
MEX002-3	Anti-CD63 (LAMP-3) mAb (C047-1)
MEX002-4	Anti-CD63 (LAMP-3) mAb-FITC (C047-1)
MEX002-6	Anti-CD63 (LAMP-3) mAb-Biotin (C047-1)
MEX002-12	Anti-CD63 mAb-ALP (C047-1)
MEX003-3	Anti-CD81 (TAPA1) mAb (A103-10)
MEX003-4	Anti-CD81 (TAPA1) mAb-FITC (A103-10)
MEX003-6	Anti-CD81 (TAPA1) mAb-Biotin (A103-10)
MEX003-12	Anti-CD81 (TAPA1) mAb-ALP (A103-10)
MEX004-6	Anti-EpCAM mAb-Biotin (B8-4)
D252-3	Anti-CD9 (Human) mAb (10H6)
D252-5	Anti-CD9 (Human) mAb-PE (10H6)
D131-3	Anti-CD9 (Mouse) mAb (JF9)
D131-4	Anti-CD9 (Mouse) mAb-FITC (JF9)
D263-3	Anti-CD63 (LAMP-3) (Mouse) mAb (R5G2.1)
D082-3	Anti-CD151 (SFA-1) (Human) mAb (SFA1.2B4)
D082-5	Anti-CD151 (SFA-1) (Human) mAb-PE (SFA1.2B4)
D050-3	Anti-CD29 (Integrin β 1) (Human) mAb (AG89)
D050-5	Anti-CD29 (Integrin β 1) (Human) mAb-PE (AG89)
D276-3	Anti-CD36 (GPIV) (Human) mAb (GS95)
D276-A48	Anti-CD36 (GPIV) (Human) mAb -Alexa Fluor [®] 488 (GS95)
D276-A64	Anti-CD36 (GPIV) (Human) mAb -Alexa Fluor [®] 647 (GS95)
D269-3	Anti-EpCAM (CD326) (Mouse) mAb (2-17-F1)
M076-4	Mouse IgG2a (isotype control)-FITC (6H3)

Kits

EX-C9-SP	ExoCap [™] CD9 Kit for Serum Plasma
EX-C63-SP	ExoCap [™] CD63 Kit for Serum Plasma
EX-C81-SP	ExoCap [™] CD81 Kit for Serum Plasma
EX-EPC-SP	ExoCap [™] EpCAM Kit for Serum Plasma
EX-COM-SP	ExoCap [™] Composite Kit for Serum Plasma
MEX-SA	ExoCap [™] Streptavidin Kit
MEX-E	ExoCap [™] Nucleic Acid Elution Buffer
MEX1001	ExoDiluent for Immunoassay

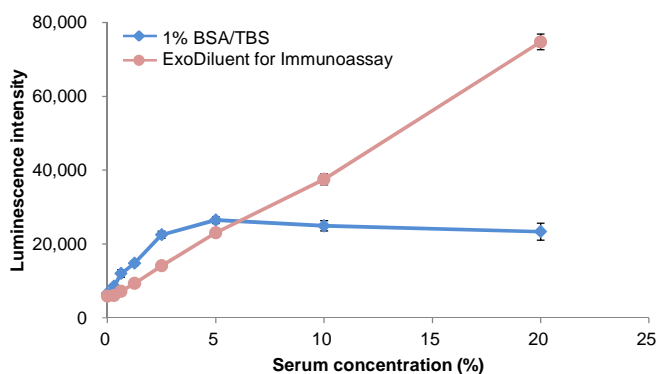
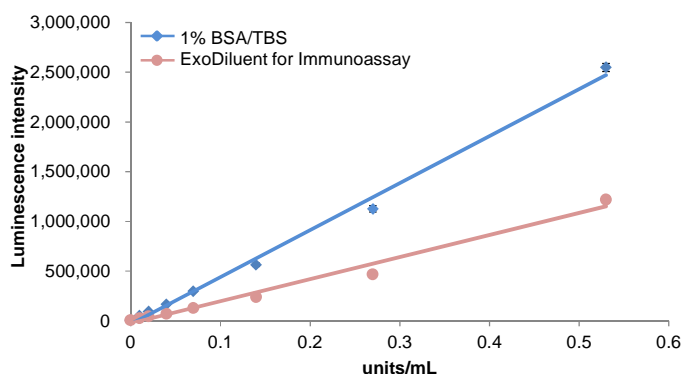
Other related antibodies and kits are also available.

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Sandwich CLEIA

- 1) Dilute the capture antibody solution to 5 µg/mL in 0.1 M bicarbonate buffer, pH 9.6.
(The concentration of antibody will depend on the conditions.)
- 2) Coat the microplate-well with 50 µL of capture antibody solution, prepared in above step 1), rock the plate briefly but thoroughly and incubate overnight at 4°C.
- 3) Wash the plate 2 times with PBS containing 0.1% Tween 20.
- 4) Add 250 µL Blocking buffer [Tris-buffered saline (TBS) containing 1% BSA, pH 7.4] to decrease the binding of non-specific proteins. Incubate for 1 hr. at room temperature.
- 5) During step 4), prepare the analyte and/or standard/calibrator to be measured using Blocking buffer or ExoDiluent for Immunoassay (MBL; code no. MEX1001).
- 6) Wash the plate 3 times with PBS containing 0.1% Tween 20.
- 7) Add 50 µL of the analyte and/or standard/calibrator prepared in above step 5) to each well, and rock the plate briefly but thoroughly. Incubate for 1 hr. at room temperature.
- 8) During step 7), prepare the detection antibody solution by diluting Anti-CD81 (TAPA1) mAb-ALP (MEX003-12) to 1:2,000 in Reaction buffer [50 mM HEPES containing 1% BSA, 0.15% Proclin 150, 150 mM NaCl, pH 7.2].
(The concentration of antibody can be changed if desired because the suitable protocol depends on each detection system).
- 9) Wash the plate 5 times with PBS containing 0.1% Tween 20.
- 10) Add 50 µL of detection antibody solution, prepared in above step 8), and rock the plate briefly but thoroughly. Incubate for 1 hr. at room temperature.
- 11) During step 10), prepare the next working solution (ALP substrate).
- 12) Wash the plate 3 times with PBS containing 0.1% Tween 20.
- 13) Wash the plate 2 times with TBS.
- 14) Add 50 µL of working solution (ALP substrate), prepared in above step 11), and rock the plate briefly but thoroughly.
- 15) Incubate for 30 min. at room temperature.
- 16) Measure the chemiluminescence by using a microplate reader.

(Positive controls for Sandwich CLEIA; HT29 cell culture supernatant and human serum)



Sandwich CLEIA for measurement of human CD81 (TAPA1)

Left: HT29 cell culture supernatant
Right: Human serum

Capture Ab: Anti-CD9 mAb (MEX001-3)
Detection Ab: Anti- CD81 (TAPA1) mAb-ALP (MEX003-12)