

# Anti-CD9 mAb-ALP

<b>CODE No.</b>	MEX001-12
<b>CLONALITY</b>	Monoclonal
<b>CLONE</b>	A100-4
<b>ISOTYPE</b>	Mouse IgG2a $\kappa$
<b>QUANTITY</b>	50 $\mu$ L
<b>SOURCE</b>	Purified IgG from hybridoma supernatant
<b>IMMUNOGEN</b>	Human prostate carcinoma cell line (PC3) derived exosomes (prepared by ultracentrifugation from cultured supernatant)
<b>FORMULATION</b>	50 mM Tris-HCl, 100 mM NaCl, 1% BSA, 0.1% ProClin150 containing stabilizers.
<b>STORAGE</b>	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** 928 (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)
- 5) Boucheix, C., *et al.*, *J. Biol. Chem.* **266**, 117-122 (1991)

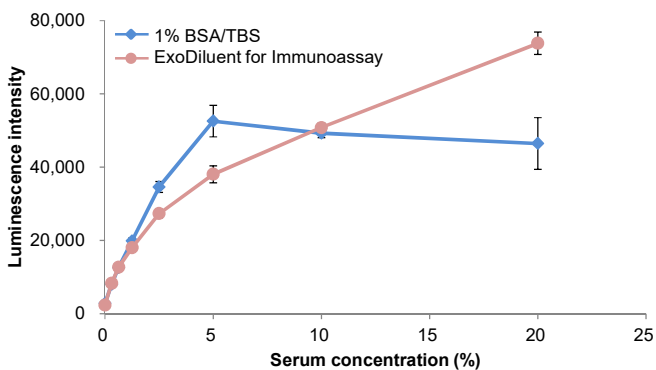
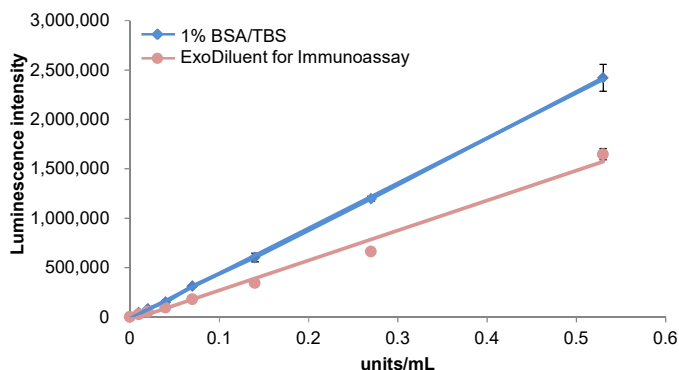
For more information, please visit our website <https://ruo.mbl.co.jp/>

The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

### **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.
- 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.
- 7) Add 50 µL of 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-CD9 mAb-ALP (MEX001-12) 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.
- 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.
- 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 CD9***

Left: HT29 cell culture supernatant  
Right: Human serum

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