

Product Datasheet

Anti-human recombinant MRP 14 chicken antibody
SBA0114R

For research use only

Description:	Antigen affinity purified chicken polyclonal antibody to recombinant human MRP 14 subunit.
Tested application:	Tests positively in indirect ELISA assay towards recombinant MRP 14 antigen when discriminated against a negative serum control (see fig. 2). Specificity and stability validated by SPR. Apparent kD value estimated to be within a low nM (nanomolar) range. Uniformity between different production batches confirmed by SPR (see fig. 3).
Immunogen:	Recombinant MRP 14/Protein 100SA9, custom formulation. Mw = 13 kDa
Form:	In PBS solution pH=7.4 supplied with 0.02% sodium azide (refer MSDS). Sterile filtered.
Concentration:	1 mg/mL (UV ₂₈₀)
Isotype:	IgY
Purification:	Affinity purification.
Purity:	≥95% pure for 1.5 µg tested and stained with Coomassie Brilliant Blue on 4-20% Bis-Tris polyacrylamide gel (see fig. 1).
Storage:	Store at 4°C short term. Longer term storage requires aliquoting and freezing at -20°C. Avoid freeze thaw cycles.

Fig.1. Purity by SDS-PAGE

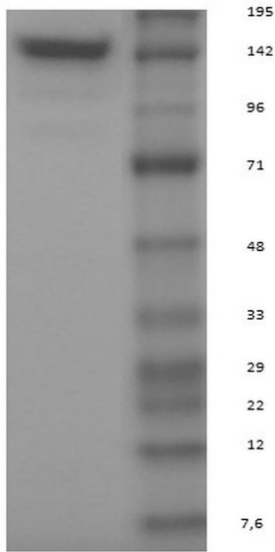


Fig.2. Relative ELISA titer

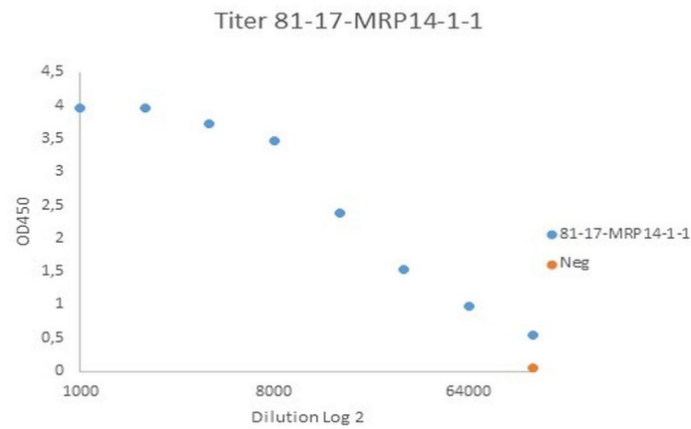


Fig.3. The fitted data was used to estimate the rate constants and the overall affinity of the polyclonal antibody preparation. All antibody injections over immobilized MRP14 spot formed relatively stable complexes with averaged KD values in the low nanomolar range as indicated in table 1 (yellow). The estimated average affinity in this range is acceptable for a polyclonal antibody preparation of this type. The low decaying shape of the curve indicates that the complexes are relatively stable over time.

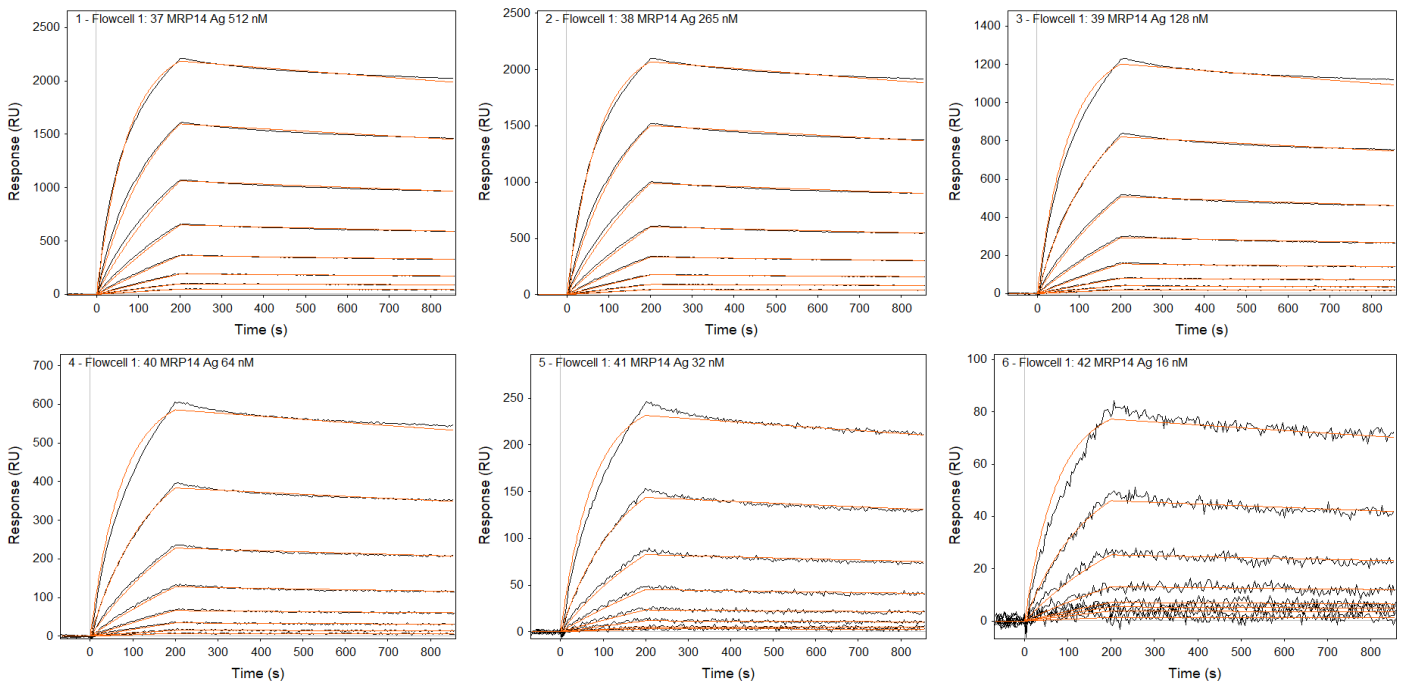


Table 1. Calculated KD values for the Anti-MRP14 chicken polyclonal antibody

Spot	ka	kd	Rmax	KD
37 MRP14 Ag 512 nM	2,34E+04	1,67E-04	2408	7,14E-09
38 MRP14 Ag 265 nM	2,25E+04	1,73E-04	2313	7,69E-09
39 MRP14 Ag 128 nM	1,64E+04	1,85E-04	1515	1,13E-08
40 MRP14 Ag 64 nM	1,32E+04	2,09E-04	823	1,59E-08
41 MRP14 Ag 32 nM	1,01E+04	2,79E-04	385	2,75E-08
42 MRP14 Ag 16 nM	7,65E+03	2,83E-04	154	3,70E-08
Mean	1,55E+04	2,16E-04		1,78E-08
SD	6,43E+03	5,24E-05		1,20E-08
%CV	41,42	24,25		67,83