

Polyclonal antibody for Tuberculosis

CATALOG NUMBER: PAB0009

LOT NUMBER: #

IMMUNOGEN: *Mycobacterium tuberculosis* recombinant multi-epitope antigen ESAT6-CFP10 (Rekom Biotech catalog number RAG0060)

SPECIFICITY: Monospecific, reacts only with TB epitopes. Non-reactive with normal human serum.

PREPARATION: Isolated from sera of rabbits immunized with highly pure (>98%) recombinant multi-epitope chimeric antigen for TB. Anti-TB specific antibody was purified by protein G affinity chromatography.

PURITY: >95% (SDS-PAGE)

PRESENTATION: dry powder (stabilized with 5% trehalose)

SOURCE: rabbit

BATCH COMPOSITION:

COMPONENTS	COMPOSITION
Storage buffer before lyophilization	20 mM phosphate buffer pH 7, 0.15 M NaCl, 0.1% sodium azide

LOT SPECIFICATIONS:

1. RECONSTITUTION: with 0.417 ml of sterile double-distilled water, a final concentration of 1.17 mg/ml will be obtained ($A_{0.1\%} = 1.4$). The solubilization of the cake should be developed for 15 min to allow a homogeneous antibody solution, considering that part of the cake can be on the glass-walls of the container. Please keep in mind that the final volume of the reconstituted protein solution may differ from the reconstitution volume mentioned in the instructions due to the hygroscopic nature of trehalose. As the protein is reconstituted, the final volume may slightly increase to reach the specified amount mentioned in the certificate of analysis. Upon reconstitution, leave the solution at least 15 min homogenizing with a mild agitation at 4°C. After those minutes, centrifuge the vial to ensure that all the product remains at the base and do not lose any of it on the walls. With this reconstitution, the antibody will be maintained at pH 7. It is recommended that the users carry out their absorbance determinations to avoid concentration variabilities due to the equipment used, mainly in reproducibility analysis.

2. TOTAL QUANTITY PER ALIQUOT: 0.5 mg

3. STORAGE: Antibody is shipped at room temperature. Upon arrival, it should be stored at 4° to -20°C in vertical position, avoiding all possible humidity and maintaining the vials dry. Once reconstituted, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20°C to -80°C.

4. WESTERN BLOT: suggested titer approx. 1:8,000-1:10,000.

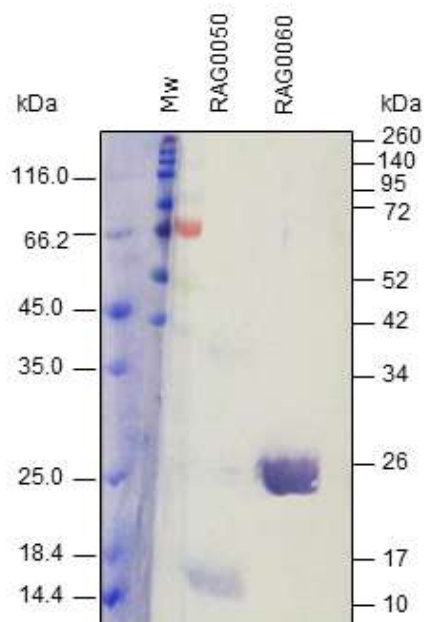
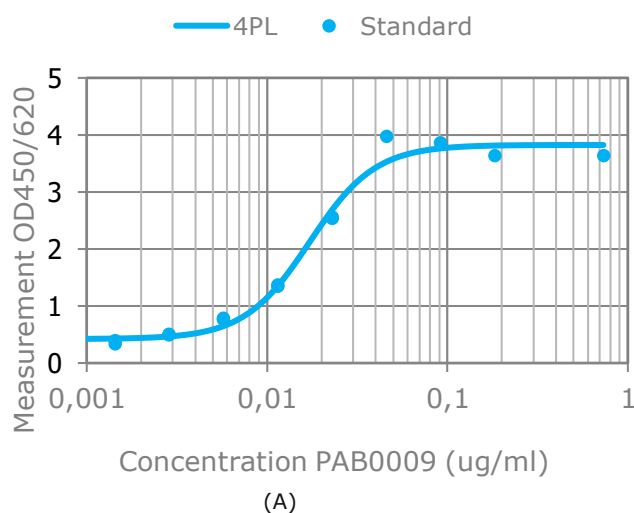
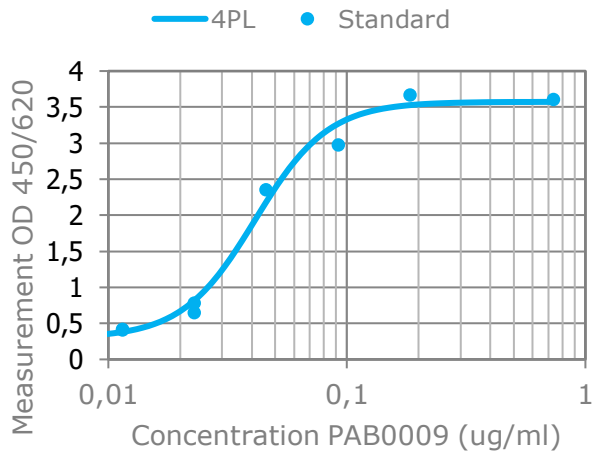


Figure 1. Western blot analysis of the polyclonal Ab against the catalog numbers: RAG0050 (TB CFP10) and RAG0060 (TB ESAT6:CFP10).

6. ELISA ANALYSIS:

Antibody titration assay. A titration assay of the antibody was performed with a fixed concentration of the recombinant immunogen.





(B)

Figure 2. Titration of the polyclonal Ab diluted in a twofold series against constant antigen concentration in plates: (A) RAG0060 (ESAT6-CFP10) 1 $\mu\text{g/ml}$ and (B) RAG0050 (CFP10), 0.8 $\mu\text{g/ml}$. A 4-parameter logistic regression (4PL) model was used to fit the sigmoidal standard curve.

The suggested titer for Ab PAB0009 in ELISA assay is between 1/6,400 (0.1828 $\mu\text{g/ml}$) and 1/819,200 (0.0014 $\mu\text{g/ml}$).

Suggested working dilutions are given as a guide only. It is recommended that the user titrates.

6. OTHER TECHNIQUES: not tested. Where this product has not been tested for use in a particular technique, this does not necessarily exclude its use in such procedures.

Important Notes: Where this product has not been tested for use in a technique, this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates.

During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μl or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the containers cap.

FOR RESEARCH AND COMMERCIAL USE *IN VITRO*: not for human *in vivo* or therapeutic use