

## Polyclonal antibody against GRA7/GRA8 for *Toxoplasma gondii*

**CATALOG NUMBER:** PAB0005

**LOT NUMBER:** #

**IMMUNOGEN:** *Toxoplasma gondii* recombinant antigens p29 (GRA7) and p35 (GRA8) (Rekom Biotech catalog references RAG0083 and RAG0084)

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

**PREPARATION:** Isolated from sera of rabbits immunized with highly pure (>98%) recombinant p29 (GRA7) and p35 (GRA8). Anti-Toxo 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 lyophilisation	20 mM phosphate buffer pH 7, 0.15 M NaCl and 0.1% sodium azide

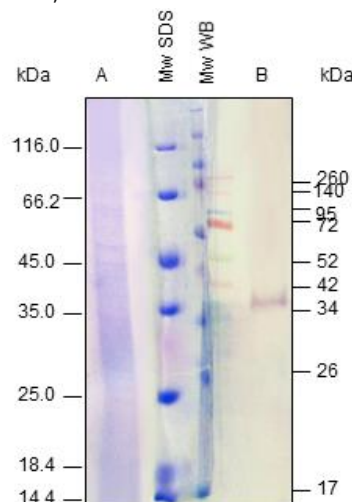
### LOT SPECIFICATIONS:

**1. RECONSTITUTION:** with 0.079 ml of sterile double-distilled water, a final concentration of 1.26 mg/ml will be obtained ( $A_{0.1\%} = 1.4$ ). The solubilisation 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. Upon reconstitution, leave the solution at least 15 min homogenizing with a mild agitation at 4°C. 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:** 0.1 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.

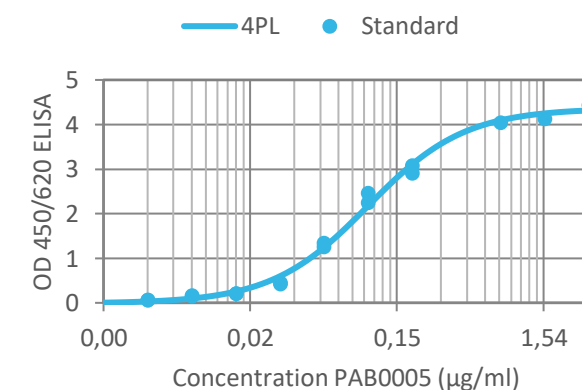
**4. WESTERN BLOT:** suggested titer approx. 1:8,000-1:10,000.



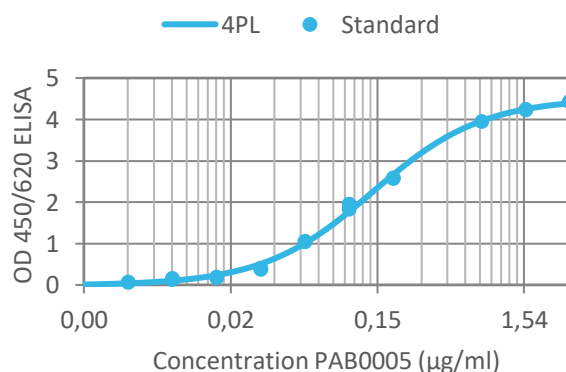
**Figure 1.** SDS-PAGE and Western blot analysis of the polyclonal Ab on the clarified extract obtained from sporozoite oocysts of *Toxoplasma gondii*. The western blot analysis reveals a clear band approximately of 35 kDa.

### 5. ELISA ANALYSIS:

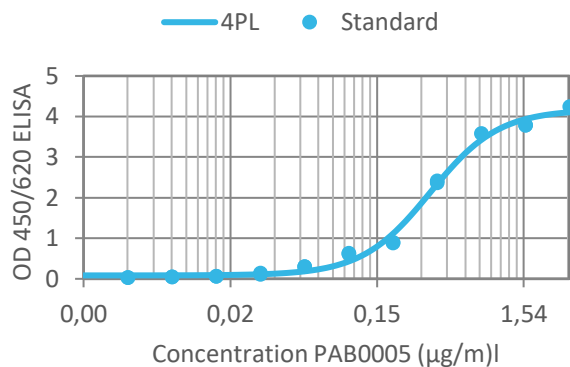
**Antibody titration assay.** A titration assay of the antibody was performed with a fixed recombinant immunogen concentration.



(A)



(B)



(C)

**Figure 2.** Titration of the polyclonal Ab diluted in a twofold series against constant antigen concentration of 1 µg/ml: (A) RAG0012 (GRA7/GRA8); (B) RAG0083 (GRA7) and (C) RAG0084 (GRA8). A 4-parameter logistic regression (4PL) model was used to fit the sigmoidal standard curve.

The suggested titer for Ab PAB0005 in ELISA assay is between 1/204,800 (0.006 µg/ml) and 1/25,600 (0.05 µg/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**