

Anti – Giardin α-1

Rabbit clonal antibody

CAT#

CONCENTRATED

DB 319-0.1	(100 µl)
DB 319-0.2	(200 µl)
DB 319-0.5	(500 µl)
DB 319-1	(1 ml)

READY TO USE (RTU)

DB 319-RTU-7	(7 ml)
DB 319-RTU-15	(15 ml)

STORAGE AND APPLICATION

CONCENTRATED

Storage: +4°C
Application: IHC-P,
dilution 1:100

READY TO USE (RTU)

Storage: +4°C, Do not freeze!
Application: IHC-P,
ready to use

PRODUCT INFORMATION

Clone: D20-D
Buffer: 20 mM Tris-HCl, pH 8.0
Stabilizer: 20 mg/ml BSA
Preservative: 0.05% NaN₃

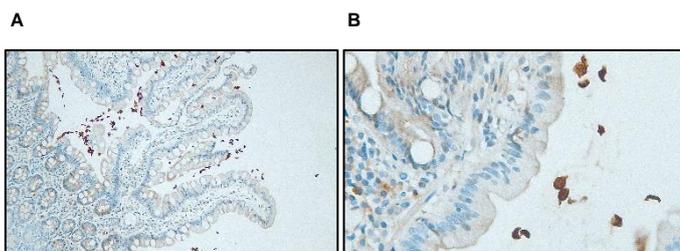
Specificity: Giardin subunit alpha-1
Expiration: 24 months from the shipping date
Immunogen: Peptide derived from internal region of Giardin subunit alpha-1 (sp. *Giardia lamblia*). Antibody recognizes the epitope between Asp157 – Asp176.

Cellular localization: cytoskeleton
Positive control: infected intestinal tissue
Protein accession number: P17063

IHC-P PROTOCOL – INSTRUCTION MANUAL

1. Deparaffinize the section in 3 changes of xylene, 5 minutes each.
2. Wash the section in 96%, 80% and 70% ethyl alcohol for 5 minutes each.
3. Rinse in distilled water – 2 x 5 minutes.
4. Block the endogenous peroxidase by incubating the tissue in 3% hydrogen peroxide (H₂O₂) for 10 minutes.
5. Wash in distilled water – 2 x 5 minutes.
6. For antigen retrieval: Immerse the slide in Tris-EDTA buffer*, pH 9.0 and incubate at 95-97°C in water bath for **30 minutes**.
7. Remove the staining to room temperature and let the slide to cool (in Tris-EDTA buffer, pH 9.0) for 15 minutes.
8. Rinse in distilled water – 2 x 5 minutes.
9. Wash in PBS (phosphate buffer saline, pH 7.4) supplemented with 0.05% of Tween-20 (**buffer A**) – 2 x 5 minutes.
10. **CONCENTRATED:**
Incubate the section with primary antibody (100 µl) at the dilution **1:100** for 1 hour in the closed wet chamber.
READY TO USE (RTU):
Incubate the section with (100 µl) primary antibody (**ready to use**) for 1 hour in a closed wet chamber.
11. Wash 3 x 5 minutes with buffer A.
12. Apply the secondary antibody (the protocol depends on the supplier) and proceed to standard immunohistochemistry protocol (HRP - Peroxide - DAB). Micropolymer-HRP detection kit rabbit/mouse dual of DB Biotech is suggested (<http://www.dbbiotech.com/products/detection-system.html>).
13. Wash 3 x 5 minutes with buffer A.
14. Apply the chromogen (DAB), 1 - 3 minutes.
15. Wash in water, 3 x 5 minutes.
16. Stain in hematoxylin for 1 minutes.
17. Wash in distilled water, 3 x 2 minutes.
18. Wash the section in 70%, 80% and 96% ethyl alcohol for 5 minutes each.
19. Rinse in xylene – 3 x 3 min.
20. Mount the slide for observation.

* **Tris-EDTA Buffer (10mM Tris Base, 1mM EDTA solution, pH 9.0):**
Tris ----- 1.21 g; EDTA ----- 0.37 g; Distilled water ----- 1000 ml
Mix to dissolve in 700 ml of distilled water. Adjust pH to 9.0 with 1M HCl and mix well. Adjust the final volume to 1 liter with distilled water.
Store this solution at room temperature for 3 months or at +4°C for longer storage.



G. *Lambli*a trophozoites located on the intestinal surface, detected with Anti – Giardin α-1 monospecific antibody (DB 319), according to the corresponding DB Biotech protocol for Ventana BenchMark Ultra (A) magnification 10x, (B) magnification 40x. Infected intestinal tissue fixed in formalin and embedded in paraffin (4 µm thick section).

VENTANA PROTOCOL – INSTRUCTION MANUAL

SHORT APPLICATION PROTOCOL FOR VENTANA BENCHMARK SLIDE STAINING SYSTEM

PROCEDURE: U ultraView DAB

1. Deparaffinization
2. Heating (72 °C) at the medium temperatures. Deparaffinization.
3. Cell conditioning
4. ULTRA conditioner #1
5. Heating slides (95 °C), incubation 8 min. (Cell conditioner #1; buffer CC1).
6. ULTRA CC1 solution application – **36 min**.
7. Antibody incubation temperature
8. Heating slides (36 °C), incubation 4 min.
9. Titration
10. Hand apply – primary antibody **Anti – Giardin α-1 (100 µl)**. Incubation **36 min**.
11. ultraWash
12. Nuclear stain
13. Hematoxylin II application – one drop (nuclear stain). Cover and incubate 12 min.
14. After nuclear stain
15. Bluing reagent application, one drop. After nuclear stain, cover and incubate 4 min.

PROCEDURE: O OptiView DAB IHC

1. Paraffin
2. Deparaffinization
3. Heating (72 °C) at the medium temperatures. Deparaffinization.
4. Cell conditioning
5. ULTRA conditioner #1
6. Heating slides (95 °C), incubation 4 min. (Cell conditioner #1; buffer CC1).
7. ULTRA CC1 solution application – **40 min**.
8. Pre-primery peroxidase inhibitor
9. Primary antibody
10. Antibody incubation temperature
11. Heating slides (36 °C).
12. Antibody titration
13. Hand apply – primary antibody **Anti – Giardin α-1 (100 µl)**. Incubation **36 min**.
14. Nuclear stain
15. Hematoxylin II application – one drop (nuclear stain). Cover and incubate 12 min.
16. After nuclear stain
17. Bluing reagent application, one drop. After nuclear stain, cover and incubate 4 min.

PRECAUTIONS

1. **We strongly recommend to use DB Primary Antibody Diluent (catalog number DB D-125, or DB D-250), eventually alternative diluent (containing protease free BSA at the concentrations ≥ 1mg/ml) for dilution of concentrated antibodies, otherwise the warranty might be voided.**
2. **Centrifuge the vial before use.**
3. Intended for professional In Vitro Diagnostic use in laboratories.
4. Do not use after expiration date stamped on vial label.
5. Avoid contamination of the reagent.
6. Any discrepancies in the recommended procedures stated in the working protocol may affect the final results.
7. The reagent contains sodium azide
8. (NaN₃) which is highly toxic in higher concentrations. The concentration in the reagent (0.05%) is not considered as hazardous.
9. Disposal of waste material must be conducted in accordance with local regulations.
10. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.