

Anti - β -Actin

Rabbit clonal antibody

CAT#

CONCENTRATED

DB 001-IHC-0.1	(100 μ l)
DB 001-IHC-0.2	(200 μ l)
DB 001-IHC-0.5	(500 μ l)
DB 001-IHC-1	(1 ml)

READY TO USE (RTU)

DB 001-IHC-RTU-7	(7 ml)
DB 001-IHC-RTU-15	(15 ml)

STORAGE AND APPLICATION

CONCENTRATED

Storage: +4°C
Application: IHC-P,
 dilution 1:100 - 1:300

READY TO USE (RTU)

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

PRODUCT INFORMATION

Clone: S12-I
Buffer: 20 mM Tris-HCl, pH 8.0
Stabilizer: 20 mg/ml BSA
Preservative: 0.05% NaN₃
Specificity: Human
Expiration: 24 months from the shipping date
Immunogen: Peptide derived from C-terminal sequence of human β -actin. Antibody recognizes the epitope located between Lys359 - Ile369.

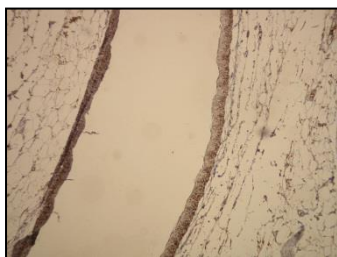
Cellular localization: cytoplasm, cytoskeleton
Positive control: muscle tissue, mesenteric vein tissue
Protein accession number: P60709

IHC-P PROTOCOL – INSTRUCTION MANUAL

1. Deparaffinize the section in 3 changes of xylene, 10 minutes each.
2. Wash the section in 96%, 80% and 70% ethyl alcohol for 10 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 citrate buffer, pH 6.0* and incubate at 95-97°C in water bath for 25 minutes.
7. Remove the staining to room temperature and let the slide to cool (in citrate buffer, pH 6.0) for 15 minutes.
8. Rinse in distilled water, 2 x 5 minutes.
9. Wash in PBS (phosphate buffer saline, pH 7.0-7.5) supplemented with 0.05% of Tween-20 (**buffer A**), 2 x 5 min.
10. **CONCENTRATED:**
 Incubate the section with primary antibody at the **dilution 1:100 - 1:300** for 1 hour in the closed wet chamber.
READY TO USE (RTU):
 Incubate the section with 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 distilled water, 2 x 5 minutes.
16. Stain in hematoxylin for 5 minutes.
17. Wash in distilled water, 3 x 2 minutes.
18. Mount the slide for observation.

* **Citrate Buffer (10mM Citric Acid, 0.05% Tween-20, pH 6.0):**

Citric acid (anhydrous) ----- 1.92 g; Distilled water ----- 1000 ml
 Mix to dissolve in 700 ml of distilled water. Adjust pH to 6.0 with 1M NaOH and then add 0.5 ml of Tween-20 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.



Actin expression in mesenteric vein, detected with anti - β -actin (DB001) monospecific antibody. Formalin fixed, paraffin embedded human tissue (4 μ m section) stained according to related DB Biotech datasheet.

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 \geq 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 (NaN₃) which is highly toxic in higher concentrations. The concentration in the reagent (0.05%) is not considered as hazardous.
8. Disposal of waste material must be conducted in accordance with local regulations.
9. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.