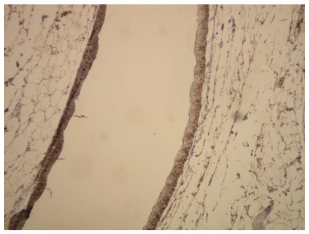
# Beta Actin (ACTB) Antibody

Catalogue No.:abx227077



IHC-P analysis of Actin expression in mesenteric vein (4 µm section).

Beta Actin (ACTB) Antibody is a Rabbit Monoclonal antibody for the detection of beta-Actin.

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| **Target:** | Beta Actin (ACTB) |
| **Clonality:** | Monoclonal |
| **Clone:** | X592 |
| **Reactivity:** | Human |
| **Tested Applications:** | IHC |
| **Host:** | Rabbit |
| **Recommended dilutions:** | IHC-P: 1/100 - 1/300. Optimal dilutions/concentrations should be determined by the end user. |
| **Conjugation:** | Unconjugated |
| **Immunogen:** | Synthetic peptide derived from the C-terminal region of human beta-actin. |
| **Isotype:** | IgG |
| **Form:** | Liquid |
| **Purification:** | Purified from rabbit antiserum by proprietary techniques. |
| **Storage:** | Store at 2-8°C. |
| **UniProt Primary AC:** | P60709 (UniProt, ExPASy) |
| **Buffer:** | 20 mM Tris-HCl, pH 8.0, containing 20 mg/ml BSA and 0.05% NaN3. |




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**Note:** This product is for research use only.

**Directions for use:**

Suggested IHC-P Protocol

1. Preparation of Citrate Buffer (10 mM Citric Acid, 0.05% Tween-20, pH 6.0): Dissolve 1.92 g of anhydrous citric acid in 700 ml of distilled water. Adjust pH to 6.0 with 1 M NaOH and then add 0.5 ml of Tween-20 and mix thoroughly. Adjust the final volume to 1 L with distilled water. Store this solution at room temperature for up to 3 months or at 4 °C for long-term storage.
2. Preparation of Wash Buffer: Use PBS, pH 7.0-7.5, containing 0.05% Tween-20.
3. Deparaffinize the section in 3 changes of xylene, 10 minutes each.
4. Wash the section in 96%, 80% and 70% ethanol, 10 minutes each.
5. Rinse twice in distilled water, 5 minutes each.
6. Block endogenous peroxidase by incubating the tissue in 3% hydrogen peroxide ($H_2O_2$) for 10 minutes.
7. Rinse twice in distilled water, 5 minutes each.
8. Antigen retrieval: immerse the slide in Citrate buffer, pH 6.0, and incubate in a water bath for 25 minutes at 95-97 °C.
9. Remove the slide from the water bath and allow to stand at room temperature (in Citrate buffer, pH 6.0) for 15 minutes.
10. Rinse twice in distilled water, 5 minutes each.
11. Wash twice in Wash Buffer, 5 minutes each.
12. Incubate the section with primary antibody at 1/100 - 1/300 dilution for 1 hour in a closed wet chamber. It is recommended to use abx291502 Primary Antibody Diluent or a diluent containing protease-free BSA (≥ 1 mg/ml) to dilute this antibody.
13. Wash 3 times with Wash Buffer, 5 minutes each.
14. Add the secondary antibody and proceed to standard immunohistochemistry protocol (HRP - Peroxide - DAB). It is recommended to use abx291501 Rabbit and Mouse HRP/DAB Detection Kit.
15. Wash three times in Wash Buffer, 5 minutes each.
16. Apply the DAB chromagen for 1-3 minutes.
17. Wash twice in distilled water, 5 minutes each.
18. Stain in hematoxylin for 5 minutes.
19. Wash three times in distilled water, 2 minutes each.
20. Mount the slide for observation.




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