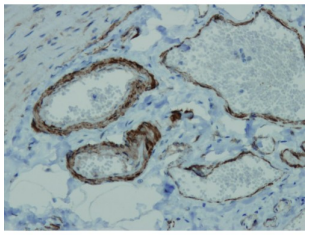
Actin Alpha 2, Smooth Muscle (ACTA2) Antibody

Catalogue No.:abx227123



IHC-P analysis of alpha smooth muscle actin positivity in the vessel walls of submucosa of small intestine tissue (4 µm section).

Actin Alpha 2, Smooth Muscle (ACTA2) Antibody is a Rabbit Monoclonal antibody for the detection of Alpha Smooth Muscle Actin.

Target:	Actin Alpha 2, Smooth Muscle (ACTA2)
Clonality:	Monoclonal
Clone:	Z996
Reactivity:	Human, Mouse
Tested Applications:	IHC
Host:	Rabbit
Recommended dilutions:	IHC-P: 1/100 - 1/200. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Synthetic peptide derived from the N-terminal region of human alpha smooth muscle actin.
Isotype:	IgG
Form:	Liquid
Purification:	Purified from rabbit antiserum by proprietary techniques.
Storage:	Store at 2-8°C.
UniProt Primary AC:	P62736 (UniProt, ExPASy)

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Buffer: 20 mM Tris-HCl, pH 8.0, containing 20 mg/ml BSA and 0.05% NaN3.

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

Directions for use:

Suggested IHC-P Protocol

1. Preparation of Tris-EDTA Buffer (10 mM Tris Base, 1 mM EDTA solution, 0.05% Tween-20, pH 9.0): Mix 1.21 g Tris and 0.37 g EDTA and dissolve in 700 ml of distilled water. Adjust pH to 9.0 with 1 M HCl 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. Wash twice in distilled water, 5 minutes each.
8. Antigen retrieval: immerse the slide in Tris-EDTA buffer, pH 9.0, and incubate in a water bath for 20 minutes at 95-97 °C.
9. Remove the slide from the water bath and allow to stand at room temperature (in Tris-EDTA buffer, pH 9.0) 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 - 1/200 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 3 times in Wash Buffer, 5 minutes each.
16. Apply the DAB chromagen for 1-3 minutes.
17. Wash twice in water, 5 minutes each.
18. Stain in hematoxylin for 5 minutes.
19. Wash 3 times in water, 2 minutes each.
20. Mount the slide for observation.

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