



Datasheet for ABIN6254917

## anti-Smooth Muscle Actin antibody (N-Term)

11 Images

5 Publications



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### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | Smooth Muscle Actin (ACTA2)  |
| Binding Specificity: | N-Term   |
| Reactivity:          | Human, Rat, Mouse, Cow   |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This Smooth Muscle Actin antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC), Immunoprecipitation (IP) |

### Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | A synthesized peptide derived from human alpha-SMA, corresponding to a region within N-terminal amino acids.              |
| Isotype:              | IgG   |
| Specificity:          | Alpha-SMA Antibody detects endogenous levels of total alpha-SMA.  |
| Predicted Reactivity: | Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken   |
| Purification:         | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

### Target Details

|         |                             |
|---------|-----------------------------|
| Target: | Smooth Muscle Actin (ACTA2) |
|---------|-----------------------------|

## Target Details

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|                   |  |
|-------------------|--|
| Alternative Name: | ACTA2 ( <a href="#">ACTA2 Products</a> )   |
| Background:       | Description: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.<br>Gene: ACTA2 |
| Molecular Weight: | 45 kDa   |
| Gene ID:          | 59   |
| UniProt:          | <a href="#">P62736</a>   |
| Pathways:         | <a href="#">Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development</a>   |

## Application Details

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|--------------------|--|
| Application Notes: | WB: 1:500-1:1000, IHC: 1:50-1:500, IF/ICC: 1:200, IP 1:100, ELISA(peptide) 1:20000-1:40000 |
| Restrictions:      | For Research Use only  |

## Handling

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|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1 mg/mL  |
| Buffer:            | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.                  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Expiry Date:       | 15 months  |

## Publications

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|                   |  |
|-------------------|--|
| Product cited in: | Xiaojun, Yan, Hong, Xianghong, Shifeng, Dingjie, Xuemin, Lijuan, Bonan, Zhongqiu, Ruimin, Brann, Fang: "Acetylated $\alpha$ -Tubulin Regulated by N-Acetyl-Seryl-Aspartyl-Lysyl-Proline(Ac-SDKP) Exerts the Anti-fibrotic Effect in Rat Lung Fibrosis Induced by Silica." in: <b>Scientific reports</b> , Vol. 6 , pp. 32257, (2018) ( <a href="#">PubMed</a> ). |
|-------------------|--|

Qiu, Wu, Ma, Cao, Huang, Qiu, Peng, Ding: "DL-3-n-Butylphthalide reduces atrial fibrillation susceptibility by inhibiting atrial structural remodeling in rats with heart failure." in: **Naunyn-Schmiedeberg's archives of pharmacology**, Vol. 391, Issue 3, pp. 323-334, (2018) ([PubMed](#)).

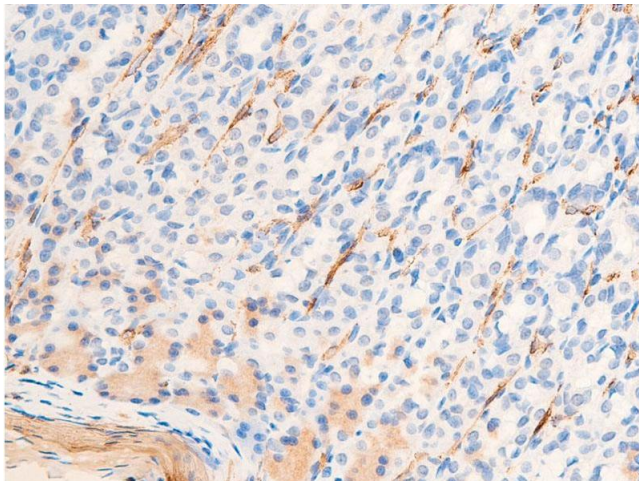
Liu, Pan, Zhao, Liu: "MicroRNA-223 inhibits deposition of the extracellular matrix by airway smooth muscle cells through targeting IGF-1R in the PI3K/Akt pathway." in: **American journal of translational research**, Vol. 10, Issue 3, pp. 744-752, (2018) ([PubMed](#)).

Li, Xiao, Yang, Qin, Gao, Liu, Zhou: "Parthenolide attenuated bleomycin-induced pulmonary fibrosis via the NF- $\kappa$ B/Snail signaling pathway." in: **Respiratory research**, Vol. 19, Issue 1, pp. 111, (2018) ([PubMed](#)).

Zhao, Gao, Xia, Che, Wang, Liu, Sun, Ren, Han, Yang, Lei: "TGF- $\beta$ 1 promotes Staphylococcus aureus adhesion to and invasion into bovine mammary fibroblasts via the ERK pathway." in: **Microbial pathogenesis**, Vol. 106, pp. 25-29, (2017) ([PubMed](#)).

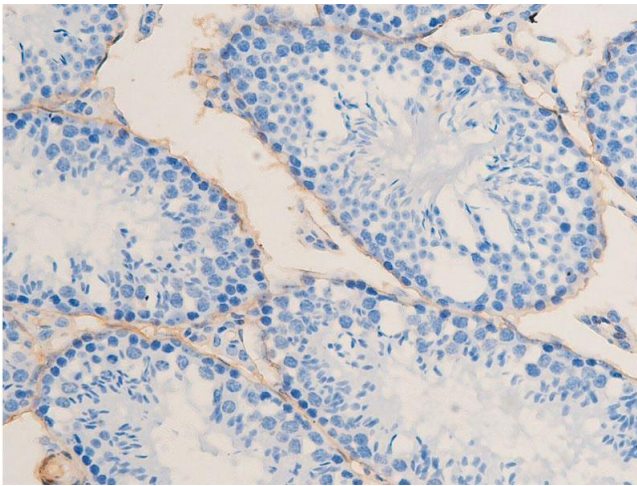
## Images

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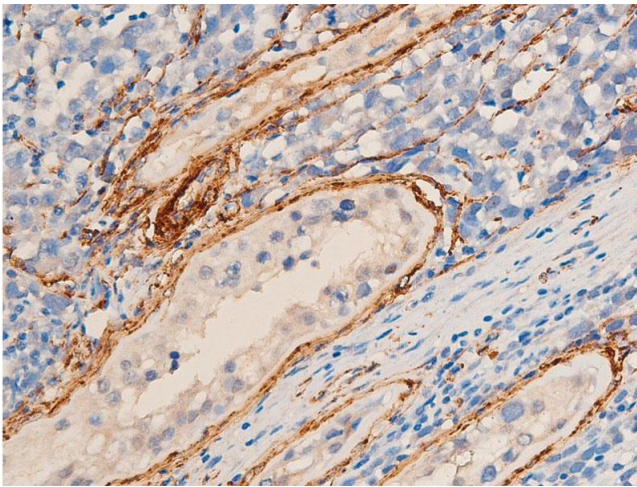
### Immunohistochemistry

**Image 1.** ABIN6267068 at 1/100 staining rat gastric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### Immunohistochemistry

**Image 2.** ABIN6267068 at 1/100 staining mouse testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### Immunohistochemistry

**Image 3.** ABIN6267068 at 1/100 staining human seminoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the [product details page](#) for more images. Overall 11 images are available for ABIN6254917.