

## Product Datasheet

# Alpha smooth muscle Actin Recombinant Rabbit Monoclonal Antibody (orb704531)

<b>Catalog Number</b>	orb704531
<b>Category</b>	Antibodies
<b>Description</b>	Alpha smooth muscle Actin Recombinant Rabbit Monoclonal Antibody
<b>Target</b>	ACTA2
<b>Clonality</b>	Recombinant
<b>Species/Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Mouse, Rat
<b>Predicted Reactivity</b>	Zebrafish
<b>Form/Appearance</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Buffer/Preservatives</b>	0.01M TBS (pH7.4) with 1% rAlbumin, 0.02% Proclin300 and 50% Glycerol.
<b>Purification</b>	Affinity purified by Protein A
<b>Immunogen</b>	A synthesized peptide derived from human Actin 46052
<b>UniProt ID</b>	<b>P62736</b>
<b>MW</b>	42 kDa

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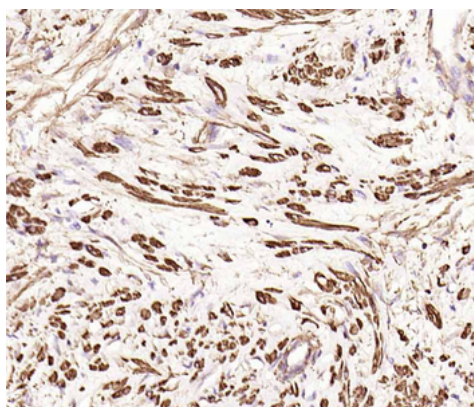
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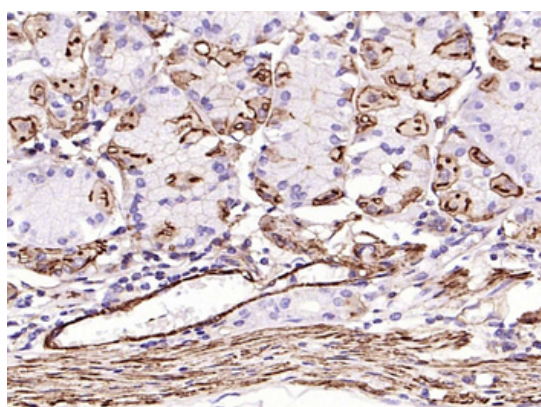
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<b>Tested applications</b>	FC, ICC, IF, IHC-Fr, IHC-P, WB
<b>Dilution range</b>	WB=1:2000-10000, IHC-P=1:200-800, IHC-F=1:200-800, ICC/IF=1:100-500, IF=1:200-800, Flow-Cyt=1:50-100
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	B0E5
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (alpha smooth muscle Actin) Monoclonal Antibody, Unconjugated (orb704531) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human gastric), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (alpha smooth muscle Actin) Monoclonal Antibody, Unconjugated (orb704531) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

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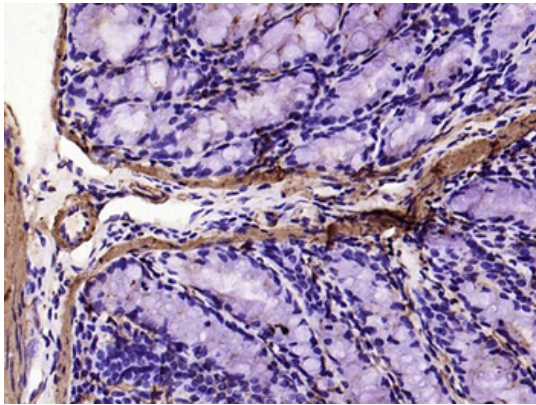
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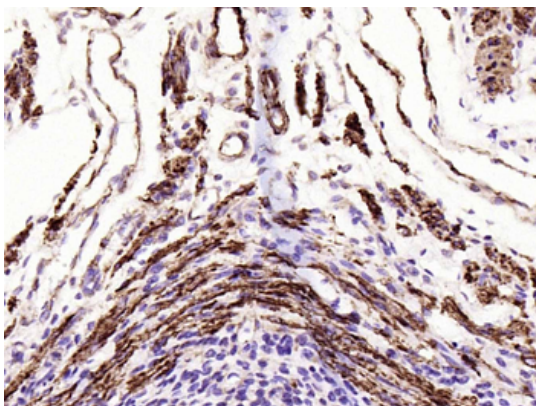
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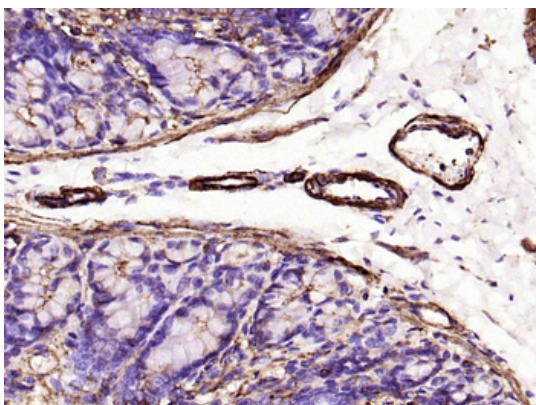
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Paraformaldehyde-fixed, paraffin embedded (mouse colon), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (alpha smooth muscle Actin) Monoclonal Antibody, Unconjugated (orb704531) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse uterus), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (alpha smooth muscle Actin) Monoclonal Antibody, Unconjugated (orb704531) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat colon), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (alpha smooth muscle Actin) Monoclonal Antibody, Unconjugated (orb704531) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

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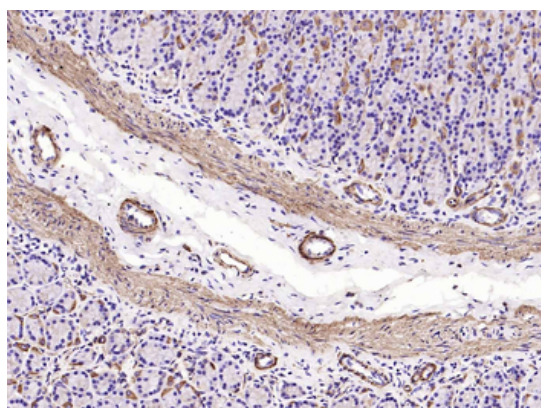
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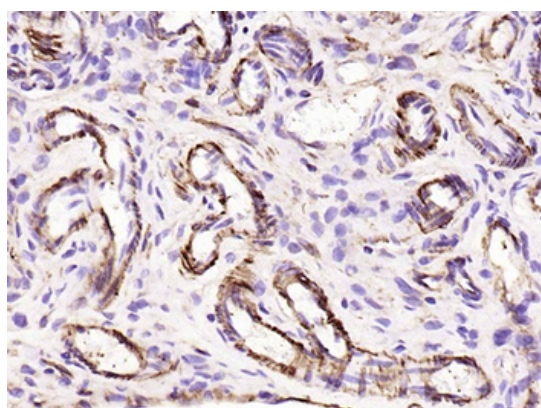
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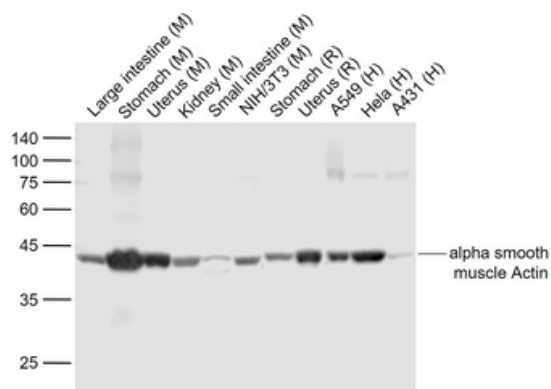
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Paraformaldehyde-fixed, paraffin embedded (rat stomach), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (alpha smooth muscle Actin) Monoclonal Antibody, Unconjugated (orb704531) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat uterus), Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30 min, Antibody incubation with (alpha smooth muscle Actin) Monoclonal Antibody, Unconjugated (orb704531) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Sample: Lane 1: Large intestine (Mouse) Lysate at 40 ug, Lane 2: Stomach (Mouse) Lysate at 40 ug, Lane 3: Uterus (Mouse) Lysate at 40 ug, Lane 4: Kidney (Mouse) Lysate at 40 ug, Lane 5: Small intestine (Mouse) Lysate at 40 ug, Lane 6: NIH/3T3 (Mouse) Cell Lysate at 30 ug, Lane 7: Stomach (Rat) Lysate at 40 ug, Lane 8: Uterus (Rat) Lysate at 40 ug, Lane 9: A549 (Human) Cell Lysate at 30 ug, Lane 10: HeLa (Human) Cell Lysate at 30 ug, Lane 11: A431 (Human) Cell Lysate at 30 ug, Primary: Anti-alpha smooth muscle Actin (orb704531) at 1/1000 dilution, Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution, Predicted band size: 42 kD, Observed band size: 42 kD.

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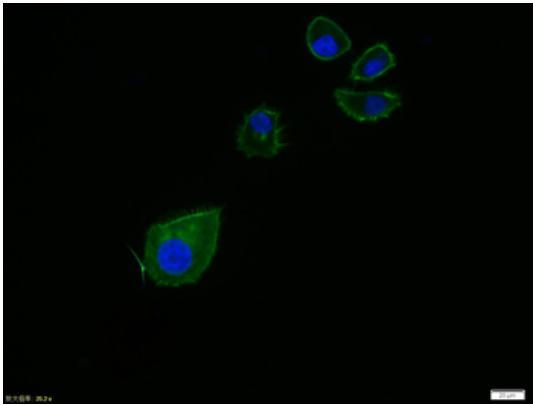
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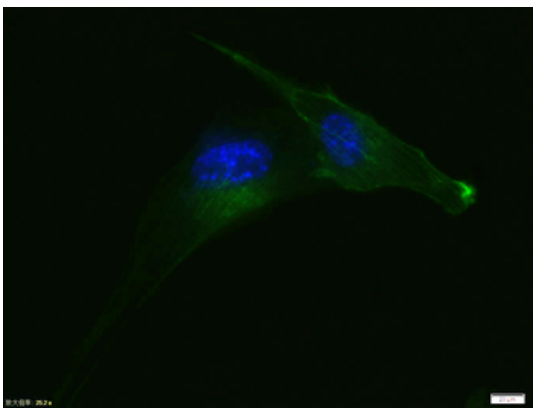
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Tissue/Cell: HepG2 cell, 4% Paraformaldehyde-fixed, Triton X-100 at room temperature for 20 min, Blocking buffer (normal goat serum) at 37°C for 20 min, Antibody incubation with (alpha smooth muscle Actin) monoclonal Antibody, Unconjugated (orb704531) 1:100, 90 minutes at 37°C, followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.



Tissue/Cell: U-87mg cell, 4% Paraformaldehyde-fixed, Triton X-100 at room temperature for 20 min, Blocking buffer (normal goat serum) at 37°C for 20 min, Antibody incubation with (alpha smooth muscle Actin) monoclonal Antibody, Unconjugated (orb704531) 1:100, 90 minutes at 37°C, followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.

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