

## Datasheet for ABIN3024118

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





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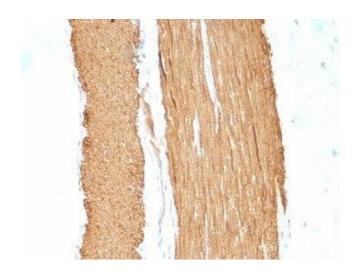
Quantity:	100 μg	
Target:	Smooth Muscle Actin (ACTA2)	
Binding Specificity:	N-Term	
Reactivity:	Human, Rat	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This Smooth Muscle Actin antibody is un-conjugated	
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Immunogen:	An N-terminal decapeptide of the alpha smooth muscle isoform of Actin (1A4) and	
	recombinant full-length human protein (ACTA2/791) were used as the immunogen for the	
Clone:	recombinant full-length human protein (ACTA2/791) were used as the immunogen for the	
Clone: Isotype:	recombinant full-length human protein (ACTA2/791) were used as the immunogen for the ACTA2 antibody cocktail.	
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Isotype:	recombinant full-length human protein (ACTA2/791) were used as the immunogen for the ACTA2 antibody cocktail.  1A4-ACTA2-791  IgG  Actin is a major component of the cytoskeleton and is present in most cell types. It is highly specific to actin from smooth muscles. This mAb does not stain cardiac or skeletal muscle,	

	negative results whereas anti-muscle specific actin and myogenin are positive.	
	Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle	
	actin and are negative with anti-myogenin.	
Purification:	Protein G affinity chromatography	
Target Details		
Target:	Smooth Muscle Actin (ACTA2)	
Alternative Name:	ACTA2 (ACTA2 Products)	
Background:	Actin is a major component of the cytoskeleton and is present in most cell types. It is highly specific to actin from smooth muscles. This mAb does not stain cardiac or skeletal muscle, however, it does stain myofibroblasts and myoepithelial cells. This antibody could be used together with anti-muscle specific actin and myogenin in making a diagnosis of smooth muscle and skeletal muscle tumors. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive.  Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.	
Pathways:	Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development	
Application Details		
Application Notes:	Optimal dilution of the ACTA2 antibody cocktail should be determined by the researcher.  1. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.  2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Flow Cytometry: 0.5-1 µg/million cells in 0.1ml,Immunofluorescence: 0.5-1 µg/mL,Immunohistochemistry (FFPE): 0.25-0.5 µg/mL for 30 min at RT (1),Prediluted format: incubate for 30 min at RT (2)	
Restrictions:	For Research Use only	
Handling		
Concentration:	0.2 mg/mL	
Buffer:	0.2 mg/mL in 1X PBS with 0.1 mg/mL BSA (US sourced) and 0.05 % sodium azide	

### Handling

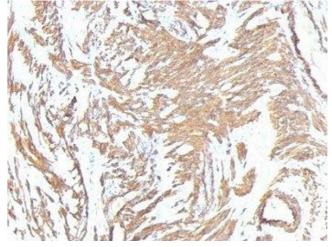
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store the ACTA2 antibody cocktail at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

#### **Images**



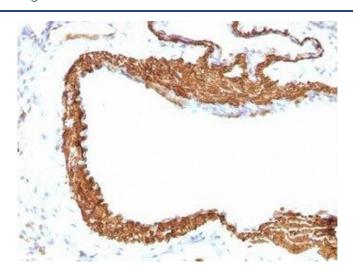
### **Immunohistochemistry**

**Image 1.** Formalin-fixed, paraffin-embedded rat stomach stained with ACTA2 antibody.



#### Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with ACTA2 antibody.



#### **Immunohistochemistry**

**Image 3.** Formalin-fixed, paraffin-embedded rat lung stained with ACTA2 antibody (1A4 + ACTA2/791).