

Alpha-Smooth Muscle Actin Monoclonal Antibody (4A4)

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	4A4
Conjugate	Unconjugated
Immunogen	Synthesized peptide of human ACTA2.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.03% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_11151920

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000	-
Immunocytochemistry (ICC/IF)	1:200-1:1,000	1 Publication
Flow Cytometry (Flow)	1:200-1:400	-
ELISA (ELISA)	1:10,000	-

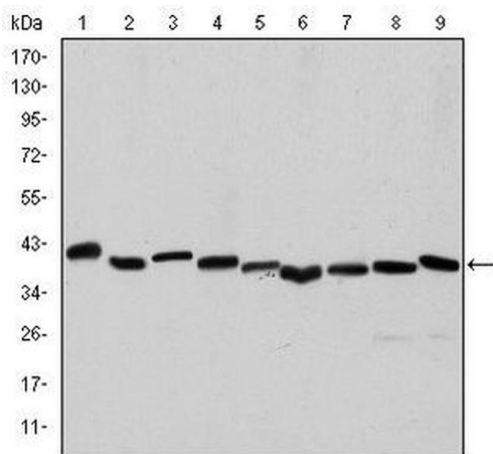
Product Specific Information

MA5-15871 targets ACTA2 in indirect ELISA, FACS, IF, IHC, and WB applications and shows reactivity with Human, mouse, Non-human primate, and Rat samples.

The MA5-15871 immunogen is synthesized peptide of human ACTA2. .

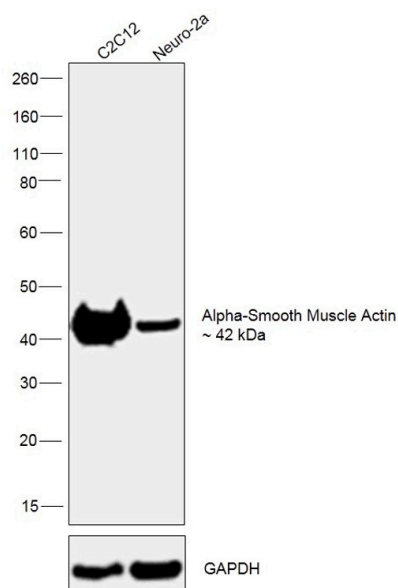
MA5-15871 detects ACTA2 which has a predicted molecular weight of approximately 42kDa.

Product Images For Alpha-Smooth Muscle Actin Monoclonal Antibody (4A4)



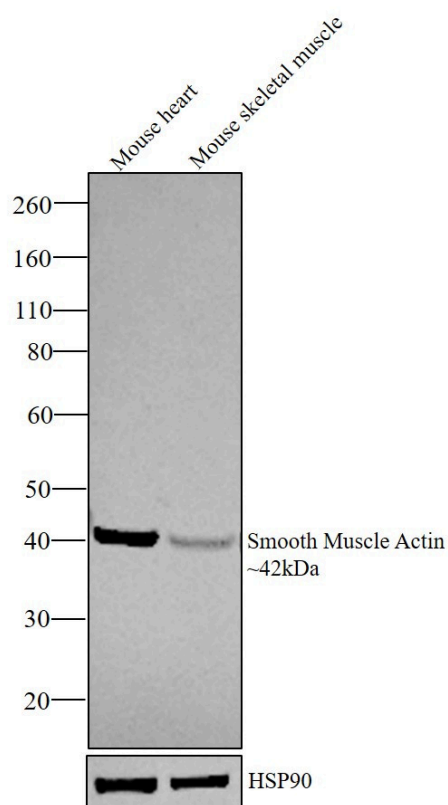
Alpha-Smooth Muscle Actin Antibody (MA5-15871) in WB

Western blot analysis of ACTA2 using ACTA2 monoclonal antibody (Product # MA5-15871) in HeLa (1), A431 (2), Jurkat (3), K562 (4), HEK293 (5), HepG2 (6), NIH/3T3 (7), PC-12 (8) and COS-7 (9) cell lysate.



Alpha-Smooth Muscle Actin Antibody (MA5-15871)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models tested owing to their inherent genetic constitution. Relative expression of Alpha-Smooth Muscle Actin was observed in C2C12 in comparison to Neuro-2a to adipocytes using Alpha-Smooth Muscle Actin Monoclonal Antibody (Product # MA5-15871). {RE}



Alpha-Smooth Muscle Actin Antibody (MA5-15871)

Relative expression of target protein demonstrates antibody specificity. Western blot analysis of Smooth muscle Actin using Smooth Muscle Actin Monoclonal Antibody (4A4) (Product # MA5-15871) shows higher expression in Mouse heart, as compared to low expression in Mouse skeletal muscle. {RE}

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1 Reference

Immunocytochemistry (1)

Genome medicine	Year 2015
Restoration of mesenchymal retinal pigmented epithelial cells by TGF pathway inhibitors: implications for age-related macular degeneration.	Species Human
"MA5-15871 was used in Immunocytochemistry to demonstrate that in RPE cells, switching to a mesenchymal state following prolonged wound stimulus is driven by TGF pathway activation."	Dilution 1:500
Authors: Radeke MJ,Radeke CM,Shih YH,Hu J,Bok D,Johnson LV,Coffey PJ	

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