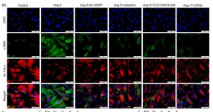
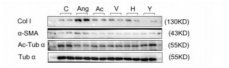
alpha-SMA Ab

Cat.#: AF1032	Concn.: 1mg/ml	Mol.Wt.: 45 KD
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

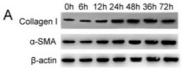
Application:	WB: 1:500~1:1000,IHC: 1:50-1:500,IF: 1:200,IP 1:100
Reactivity:	Human,Mouse,Rat,Bovine
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	alpha-SMA Ab detects endogenous levels of alpha-SMA.
Immunogen:	Synthetic peptide corresponding to N terminal residues of Human alpha smooth muscle Actin.
Uniprot:	P62736
Description:	Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6) [MIM:611788]. AATs are characterized by permanent dilation of the thoracic aorta usually due to degenerative changes in the aortic wall. They are primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance.
Subcellular Location:	Cytoplasm > cytoskeleton.
Tissue Specificity:	Up-regulated in response to enterovirus 71 (EV71) infection.
Similarity:	Belongs to the actin family.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 15 months from date of receipt.



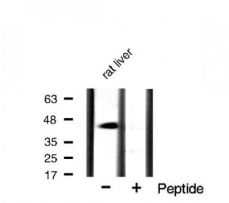
Effect of Ac-SDKP on col I, α-SMA and α-Ac-Tub in fibroblasts induced by Ang II. (a) The coexpression of α-SMA and α-Ac-Tub in fibroblasts induced by Ang II measured by immunofluorescence. Scale bar=50μm. (b) Effect of Ac-SDKP, valsartan (AT1 inhibitor), TCS HDAC6 20b (specific HDAC6 inhibitor), and Y-27632 (ROCK inhibitor) on fibroblasts measured by Western blot. Data presented as mean±SEM; N=4 independent experiments.



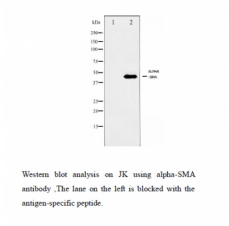
Acetylated α-Tubulin Regulated by N-Acetyl-Seryl-Aspartyl-Lysyl-Proline (Ac-SDKP) Exerts the Anti-fibrotic Effect in Rat Lung Fibrosis Induced by Silica W Xiaojun, L Yan, X Hong, Z Xianghong... Scientific ..., 2016 ncbi.nlm.nih.gov



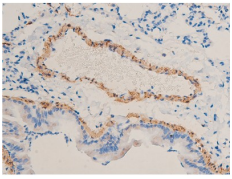
This image is a courtesy of anonymous review.



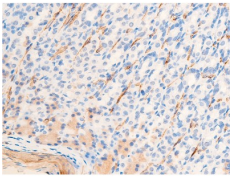
Western blot analysis on rat liver using alpha-SMA Ab ,The lane on the right is blocked with the antigen-specific peptide.



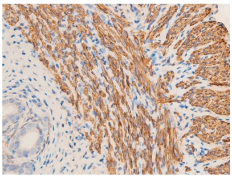
Western blot analysis on JK using alpha-SMA Ab ,The lane on the left is blocked with the antigen-specific peptide.



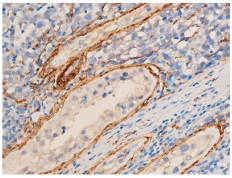
AF1032 at 1/100 staining rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



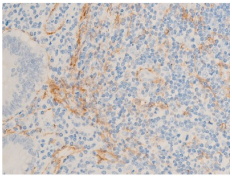
AF1032 at 1/100 staining rat gastric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



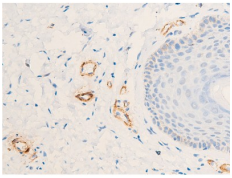
AF1032 at 1/100 staining rat uterine tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



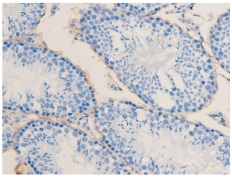
AF1032 at 1/100 staining human seminoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



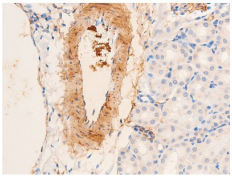
AF1032 at 1/100 staining human appendiceal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



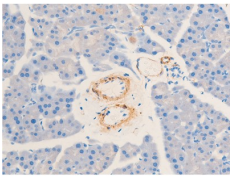
AF1032 at 1/100 staining human skin tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



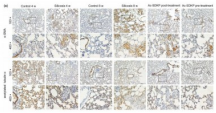
AF1032 at 1/100 staining mouse testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



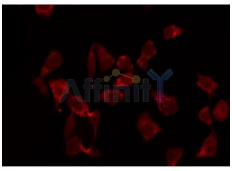
AF1032 at 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF1032 at 1/100 staining mouse pancreas 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 Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



The expression of α-SMA and α-Ac-Tub in lung tissue measured by immunohistochemistry



AF1032 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.