

Phospho-Caveolin 2 (Tyr19) Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phosphopeptide corresponding to residues M(14) A D D A (pY) S H H S G C(25) of mouse CAV2.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2072311

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	1-2 µg/mL	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

PA1-060 detects phospho-caveolin-2 Y19 from human and mouse samples.

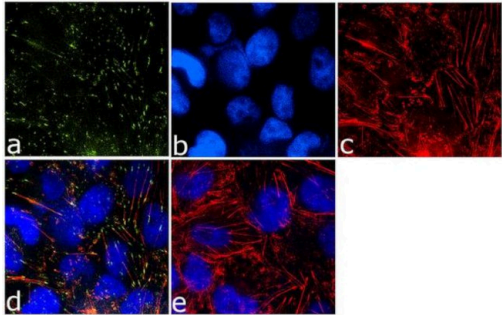
PA1-060 has been successfully used in Western blot and immunofluorescence procedures. By Western blot, this antibody detects an ~21 kDa protein representing phospho-caveolin-2 Y19 from extract from COS-7 cells transiently transfected with the mouse caveolin-2 gene. Immunofluorescent staining of phospho-caveolin-2 Y19 in NIH 3T3 cells using PA1-060 results in a distinct punctate staining pattern at the cell periphery.

The PA1-060 immunogen is a synthetic phosphopeptide corresponding to residues M(14) A D D A (pY) S H H S G C(25) of mouse CAV2. This peptide (Cat. # PEP-180) is available for use in neutralization and control experiments.

Product Images For Phospho-Caveolin 2 (Tyr19) Polyclonal Antibody

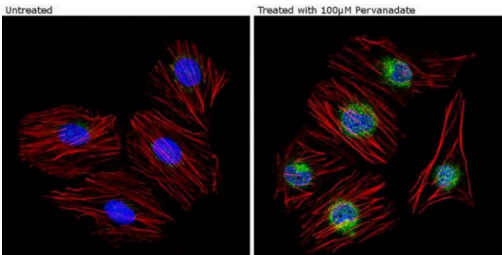
Phospho-Caveolin 2 (Tyr19) Antibody (PA1-060) in ICC/IF

Immunofluorescence analysis of Phospho-Caveolin 2 pTyr19 was done on 70% confluent log phase A-375 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Phospho-Caveolin 2 pTyr19 Rabbit Polyclonal Antibody (Product # PA1-060) at 1 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing membranous localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



Phospho-Caveolin 2 (Tyr19) Antibody (PA1-060) in ICC/IF

Immunofluorescent analysis of Phospho-Caveolin 2 pTyr19 (green) showing staining in the cytoplasm and nucleus of HUVEC cells treated with 100µM pervanadate (left) and untreated HUVEC cells (right). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Phospho-Caveolin 2 pTyr19 polyclonal antibody (Product # PA1-060) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



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Western Blot (1)

Cell cycle (Georgetown, Tex.)	Year 2013
Genetic ablation of caveolin-2 sensitizes mice to bleomycin-induced injury.	Species Mouse
"Published figure using Phospho-Caveolin 2 (Tyr19) polyclonal antibody (Product # PA1-060) in Western Blot"	Dilution 1:1,000
Authors: de Almeida CJ,Jasmin JF,Del Galdo F,Lisanti MP	

Miscellaneous PubMed (1)

The Journal of biological chemistry	Year 2002
Src-induced phosphorylation of caveolin-2 on tyrosine 19. Phospho-caveolin-2 (Tyr(P)19) is localized near focal adhesions, remains associated with lipid rafts/caveolae, but no longer forms a high molecular mass hetero-oligomer with caveolin-1.	
"PA1-060 was used in immunocytochemistry and western blot to investigate the phosphorylation of caveolin 2 by c-Src"	
Authors: Lee H,Park DS,Wang XB,Scherer PE,Schwartz PE,Lisanti MP	

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