

# Anti-Caveolin-1 (Tyr-14), Phosphospecific Antibody

Catalog # AN1687

### **Specification**

## Anti-Caveolin-1 (Tyr-14), Phosphospecific Antibody - Product Information

Application WB
Primary Accession Q03135
Reactivity Bovine
Host Mouse

Clonality Mouse Monoclonal

Isotype IgG1
Calculated MW 20472

### Anti-Caveolin-1 (Tyr-14), Phosphospecific Antibody - Additional Information

Gene ID 857
Other Names
caveolin1, vip21

### Target/Specificity

Caveolins are the primary structural components of the plasma membrane microdomains, caveolae. Three members of the caveolin family (caveolin-1, -2, and -3) have been identified, and each has distinct expression patterns. Caveolins are involved in diverse biological functions, including vesicular trafficking, cholesterol homeostasis, cell adhesion and apoptosis. Caveolins can interact with various signaling molecules, including G-proteins, receptor tyrosine kinases, PKCs, and Src family kinases. Phosphorylation at Tyr-14 is essential for caveolin association with SH2 or PTB domain-containing adaptor proteins, while phosphorylation at Ser-80 regulates caveolin binding to the ER membrane and entry into the secretory pathway.

#### **Dilution**

WB~~1:1000

#### **Format**

Protein A Purified

### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

Anti-Caveolin-1 (Tyr-14), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Shipping

Blue Ice

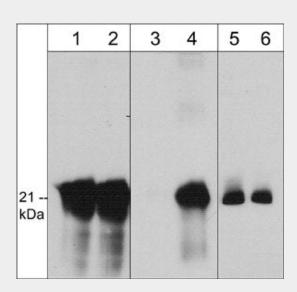
#### Anti-Caveolin-1 (Tyr-14), Phosphospecific Antibody - Protocols



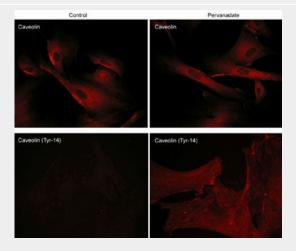
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Anti-Caveolin-1 (Tyr-14), Phosphospecific Antibody - Images



Western blot image of human A431 cells unstimulated (lanes 1, 3, & 5) or stimulated with pervanadate (1 mM) for 30 min (lanes 2, 4, & 6). The blots were probed with rabbit polyclonal caveolin-1 (N-term.) (lanes 1 & 2), mouse monoclonal caveolin-1 (Tyr-14) (lanes 3 & 4) or mouse monoclonal caveolin-1 (lanes 5 & 6).



Immunocytochemical labeling of caveolin-1 phosphorylation in rabbit spleen fibroblasts. The cells were treated with pervanadate (1 mM) for 30 min, then fixed with paraformaldehyde and labeled with rabbit polyclonal Caveolin-1 (N-terminal region) and mouse monoclonal Caveolin-1 (Tyr-14) antibodies. The antibodies were detected using appropriate secondary antibodies conjugated to Cy3.

Anti-Caveolin-1 (Tyr-14), Phosphospecific Antibody - Background





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