

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Caveolin-2 antibodies are ideal for immunocytochemistry colocalization studies in caveolae. The unconjugated antibody detects endogenous human, mouse, and rat Caveolin-2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Caveolin-2 Met1-Lys86 Accession # P51636
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

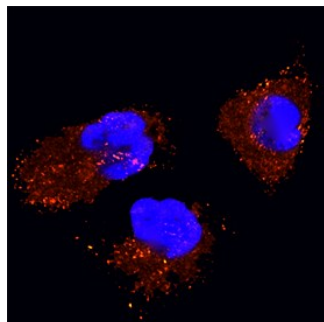
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	5-15 µg/mL	See Below

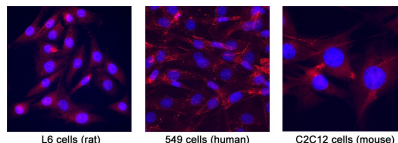
DATA

Immunocytochemistry



Caveolin-2 in HeLa Human Cell Line. Caveolin-2 was detected in formaldehyde fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human/Mouse/Rat Caveolin-2 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF5788) at 5 µg/mL overnight at 4° C. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to caveolae.

Immunocytochemistry



Caveolin-2 in L6 rat myoblast cell line, A549 human lung carcinoma cell line and C2C12 mouse myoblast cell line. Caveolin-2 was detected in immersion fixed L6 rat myoblast cell line, A549 human lung carcinoma cell line, C2C12 mouse myoblast cell line using Goat Anti-Human/Mouse/Rat Caveolin-2 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF5788) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Caveolin-2 is a cell membrane-associated member of the caveolin family of proteins. Although its predicted MW is 17 kDa, it runs anomalously at 21-22 kDa on SDS-PAGE. Caveolin-2 is not ubiquitous, but it is found in divergent cell types such as smooth muscle, endothelial, and skeletal muscle cells, plus fibroblasts and adipocytes. When expressed alone, Caveolin-2 forms monomers and homodimers; when expressed with Caveolin-1, it exists as part of a 150 kDa, Caveolin-1 associated oligomeric complex. Human Caveolin-2 is 162 amino acids (aa) in length. It contains a central membrane-embedded sequence (aa 87-107) flanked by two cytoplasmic domains (aa 1-86 and 108-162). Caveolin-2 has been found phosphorylated at tyrosines 19 and 27, and at serines 20, 23 and 36.