

Phospho-Caveolin-1-Y14 Rabbit pAb

Catalog No.: AP0742 **1 Publications**

Basic Information

Observed MW

23kDa

Calculated MW

20kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human, Mouse

Background

The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 mitogen-activated kinase cascade. Caveolin 1 and caveolin 2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Mutations in this gene have been associated with Berardinelli-Seip congenital lipodystrophy. Alternatively spliced transcripts encode alpha and beta isoforms of caveolin 1.

Recommended Dilutions

WB 1:1000 - 1:2000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

857

Swiss Prot

Q03135

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

CGL3; PPH3; BSCL3; LCCNS; VIP21; MSTP085; Phospho-Caveolin-1-Y14

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

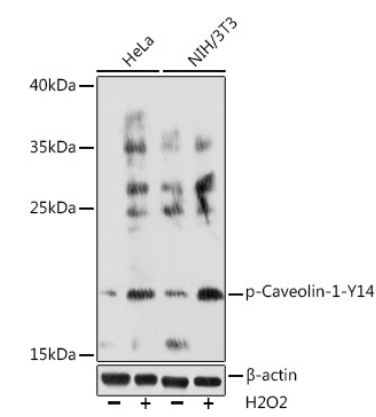
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using Phospho-Caveolin-1-Y14 Rabbit pAb (AP0742) at 1:1000 dilution. Both HeLa cells and NIH/3T3 cells were treated with Hydrogen Peroxide (2 nM) at 37°C for 15 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 120s.