

Caveolin-1(Phospho-Tyr14) Antibody

Catalog No: #11090



Package Size: #11090-1 50ul #11090-2 100ul #11090-4 25ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Caveolin-1(Phospho-Tyr14) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Caveolin-1 only when phosphorylated at tyrosine 14.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 14 (H-L-Y(p)-T-V) derived from Human CAVEOLIN-1.
Target Name	Caveolin-1
Modification	Phospho-Tyr14
Other Names	CAV; CAV1;
Accession No.	Swiss-Prot: Q03135NCBI Protein: NP_001166366.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

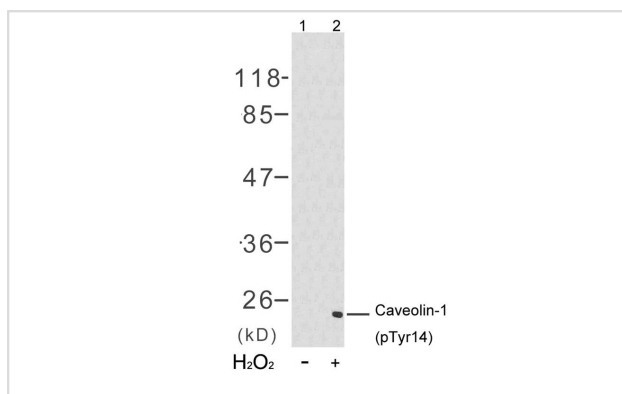
Application Details

Predicted MW: 24kd

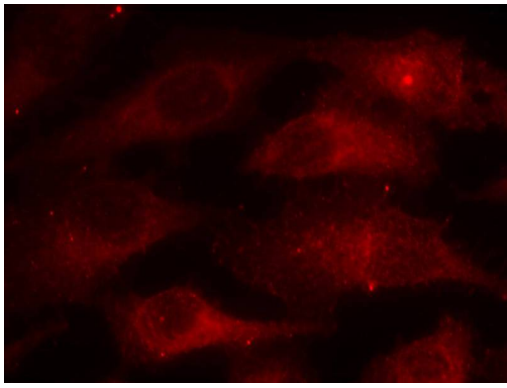
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from 3T3 cells untreated (lane 1) or treated with H₂O₂ (lane 2) using Caveolin-1(Phospho-Tyr14) Antibody #11090.



Immunofluorescence staining of methanol-fixed HeLa cells using Caveolin-1(Phospho-Tyr14) Antibody #11090.

Background

The scaffolding protein encoded by Caveolin-1 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 MAP kinase cascade. CAV1 and CAV2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. By using alternative initiation codons in the same reading frame, two isoforms (α and β) are encoded by a single transcript from this gene.

Zhang Y, et al. (2005) *Mol Cell Proteomics*. 4(9): 1240-1250.

Labrecque L, et al. (2004) *J Biol Chem*. 279(50): 52132-52140.

Fielding PE, et al. (2004) *Biochemistry*. 43(9): 2578-2586.

Labrecque L, et al. (2003) *Mol Biol Cell*. 14(1): 334-347.

Maggi D, et al. (2002) *Biochem Biophys Res Commun*. 295(5): 1085-1089.

Published Papers

Andr B| Bento-Abreu, Ana Velasco, Erica Polo-HernB B'ndez et al., Albumin endocytosis via megalin in astrocytes is caveola- and Dab-1 dependent and is required for the synthesis of the neurotrophic factor oleic acid., *Journal of Neurochemistry*, 111 (1), Pages 49 - 60(2009)

[PMID:19656258](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.