

## Caveolin-1(Ab-14) Antibody

Catalog No: #21112

Package Size: #21112-1 50ul #21112-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

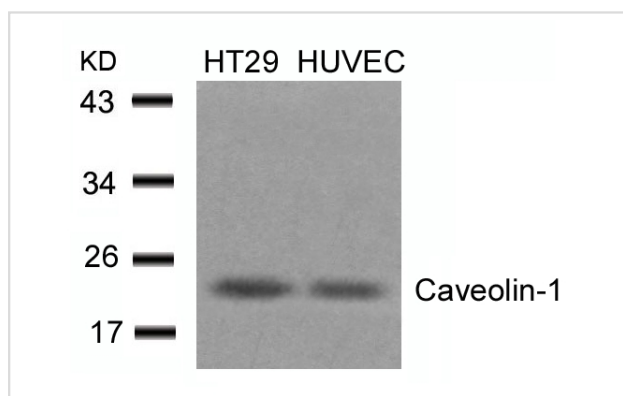
Product Name	Caveolin-1(Ab-14) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total Caveolin-1 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.12~16 (H-L-Y-T-V) derived from Human CAVEOLIN-1.
Target Name	Caveolin-1
Other Names	CAV; CAV1;
Accession No.	Swiss-Prot: Q03135NCBI Protein: NP_001166366.1
Uniprot	Q03135
GeneID	857;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 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

## Images



Western blot analysis of extracts from HT29 and HUVEC cells using Caveolin-1(Ab-14) Antibody #21112.

## 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.

Note: This product is for in vitro research use only