

Datasheet for ABIN7138938  
**anti-Caveolin-1 antibody (pTyr14)**



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2 Images

## Overview

Quantity:	100 µL
Target:	Caveolin-1 (CAV1)
Binding Specificity:	pTyr14
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caveolin-1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

## Product Details

Immunogen:	Peptide sequence around phosphorylation site of tyrosine 14 (H-L-Y(p)-T-V) derived from Human CAVEOLIN-1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
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

## Target Details

Target:	Caveolin-1 (CAV1)
Alternative Name:	CAV1 ( <a href="#">CAV1 Products</a> )

## Target Details

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**Background:** 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.

Aliases: BSCL3 antibody, CAV antibody, CAV1 antibody, CAV1\_HUMAN antibody, caveolae protein, 22 kD antibody, caveolin 1 alpha isoform antibody, caveolin 1 beta isoform antibody, Caveolin 1 caveolae protein 22 kDa antibody, Caveolin-1 antibody, Caveolin1 antibody, cell growth-inhibiting protein 32 antibody, CGL3 antibody, LCCNS antibody, MSTP085 antibody, OTTHUMP00000025031 antibody, PPH3 antibody, VIP 21 antibody, VIP21 antibody

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**UniProt:** [Q03135](#)

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**Pathways:** [Maintenance of Protein Location](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Negative Regulation of Transporter Activity](#), [VEGFR1 Specific Signals](#)

## Application Details

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**Application Notes:** WB:1:500-1:1000, IF:1:100-1:200,

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

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**Preservative:** Sodium azide

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**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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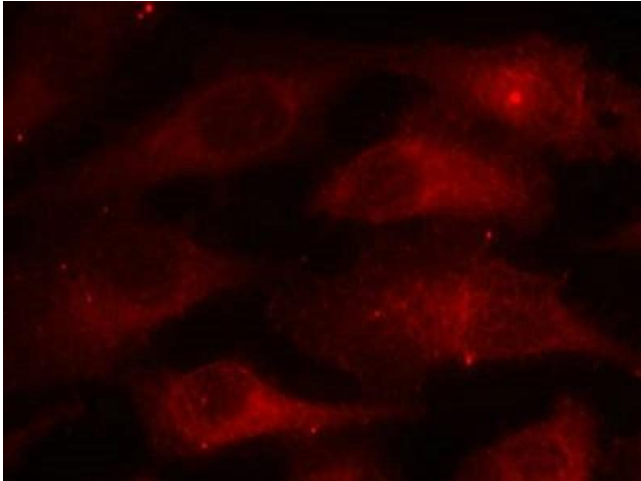
## Handling

should be handled by trained staff only.

Storage: -20 °C,-80 °C

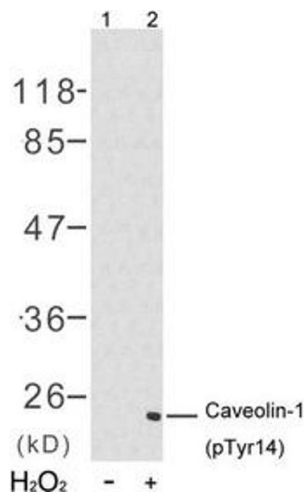
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



### Immunofluorescence

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



### Western Blotting

**Image 2.** Western blot analysis of extracts from 3T3 cells untreated(lane 1) or treated with H<sub>2</sub>O<sub>2</sub>(lane 2) using Caveolin-1(Phospho-Tyr14) Antibody.