

## Product datasheet for **AP02388PU-S**

### Caveolin 1 (CAV1) pTyr14 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunofluorescence:1/100-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human Caveolin-1 around the phosphorylation site of tyrosine 14 (H-L-YP-T-V).
Specificity:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. Antibody AP02388PU detects endogenous levels of Caveolin-1 only when phosphorylated at Tyrosine 14.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	caveolin 1
Database Link:	<a href="#">Entrez Gene 857 Human Q03135</a>



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**Background:**

Caveolae (also known as plasmalemmal vesicles) are 50-100 nm flask-shaped membranes that represent a subcompartment of the plasma membrane. On the basis of morphological studies, caveolae have been implicated to function in the transcytosis of various macromolecules (including LDL) across capillary endothelial cells, uptake of small molecules via potocytosis and the compartmentalization of certain signaling molecules including G protein-coupled receptors. Three proteins, caveolin-1, caveolin-2 and caveolin-3 have been identified as principle components of caveolae.

**Synonyms:**

CAV1

**Note:**

Molecular Weight: 24 kDa

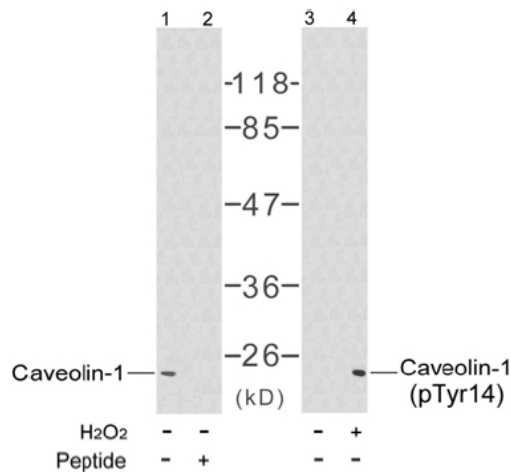
**Product images:**


Figure 1. Western blot analysis of the extract from NIH/3T3 cells untreated or treated with H<sub>2</sub>O<sub>2</sub> using Caveolin-1 antibody (Lane 1 and 2) and Caveolin-1 pTyr14 antibody (Lane 3 and 4).

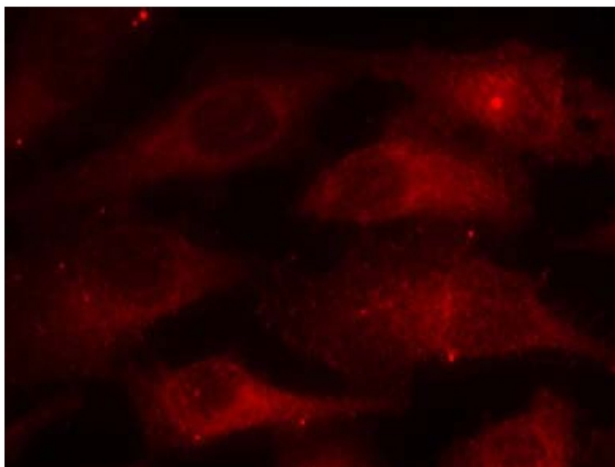


Figure 2. Immunofluorescence staining of methanol-fixed HeLa cells using Caveolin-1 pTyr14 antibody (Red).