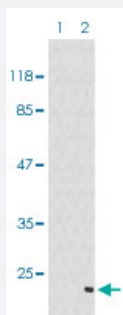


# CAV1 (phospho Y14) polyclonal antibody

Catalog # PAB29603

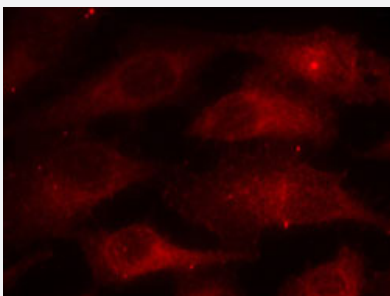
Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of Lane 1: 3T3 cells, Lane 2: H<sub>2</sub>O<sub>2</sub> treated 3T3 cells with CAV1 (phospho Y14) polyclonal antibody (Cat# PAB29603) at 1:500-1:1000 dilution.



### Immunofluorescence

Immunofluorescent staining of methanol-fixed HeLa cells using CAV1 (phospho Y14) polyclonal antibody (Cat# PAB29603) at 1:100-1:200 dilution.

## Specification

|                             |                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Rabbit polyclonal antibody raised against synthetic phosphopeptide of human CAV1.                                |
| <b>Immunogen</b>            | A synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y14 of human CAV1.        |
| <b>Host</b>                 | Rabbit                                                                                                           |
| <b>Theoretical MW (kDa)</b> | 24                                                                                                               |
| <b>Reactivity</b>           | Human, Mouse, Rabbit                                                                                             |
| <b>Specificity</b>          | CAV1 (phospho Y14) polyclonal antibody detects endogenous level of CAV1 only when phosphorylated at tyrosine 14. |

|                     |                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                |
| Purification        | Affinity Chromatography                                                                                                               |
| Recommend Usage     | Immunofluorescence (1:100-1:200)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS (without $Mg^{2+}$ and $Ca^{2+}$ ), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)                                     |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane 1: 3T3 cells, Lane 2: H<sub>2</sub>O<sub>2</sub> treated 3T3 cells with CAV1 (phospho Y14) polyclonal antibody (Cat# PAB29603) at 1:500-1:1000 dilution.

- Immunofluorescence

Immunofluorescent staining of methanol-fixed Hela cells using CAV1 (phospho Y14) polyclonal antibody (Cat# PAB29603) at 1:100-1:200 dilution.

## Gene Info — CAV1

|                    |                                     |
|--------------------|-------------------------------------|
| Entrez GeneID      | <a href="#">857</a>                 |
| Protein Accession# | <a href="#">Q03135</a>              |
| Gene Name          | CAV1                                |
| Gene Alias         | BSCL3, CAV, CGL3, MSTP085, VIP21    |
| Gene Description   | caveolin 1, caveolae protein, 22kDa |
| Omim ID            | <a href="#">601047</a>              |
| Gene Ontology      | <a href="#">Hyperlink</a>           |

**Gene Summary**

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 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 (alpha and beta) are encoded by a single transcript from this gene. [provided by RefSeq]

**Other Designations**

OTTHUMP00000025031|caveolae protein, 22-kD|caveolin 1|caveolin 1 caveolae protein, 22kD|caveolin 1, alpha isoform|caveolin 1, beta isoform|caveolin-1 beta isoform protein|cell growth-inhibiting protein 32

**Pathway**

- [Focal adhesion](#)

**Disease**

- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Arrhythmias](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Atrioventricular Block](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)

- [Edema](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
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- [Multiple Sclerosis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Sick Sinus Syndrome](#)
- [Thrombosis](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)