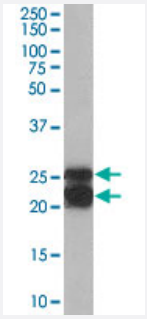
# CAV1 polyclonal antibody

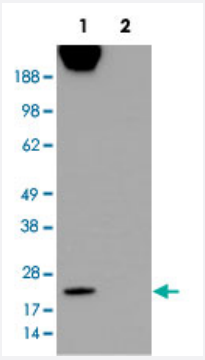
Catalog # PAB6814 Size 100 ug

## Applications




### Western Blot (Tissue lysate)

CAV1 polyclonal antibody (Cat # PAB6814) (0.3 ug/mL) staining of human spleen lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.




### Western Blot (Transfected lysate)

HEK293 overexpressing CAV1 and probed with CAV1 polyclonal antibody (Cat # PAB6814) (mock transfection in second lane).

## Specification

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|---|---|
| **Product Description** | Goat polyclonal antibody raised against synthetic peptide of CAV1. |
| **Immunogen** | A synthetic peptide corresponding to internal region of human CAV1. |
| **Sequence** | C-DELSEKQVYDAH |
| **Host** | Goat |
| **Theoretical MW (kDa)** | 20.5 |
| **Reactivity** | Human |

| | |
|---|---|
| **Specificity** | This antibody is not expected to cross-react with Caveolin 2 and Caveolin 3. |
| **Form** | Liquid |
| **Purification** | Antigen affinity purification |
| **Concentration** | 0.5 mg/mL |
| **Recommend Usage** | ELISA (1:32000)<br>Western Blot (0.3-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Tissue lysate)

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- Western Blot (Transfected lysate)

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — CAV1

| | |
|---|---|
| **Entrez GeneID** | 857 |
| **Protein Accession#** | NP_001744.2 |
| **Gene Name** | CAV1 |
| **Gene Alias** | BSCL3, CAV, CGL3, MSTP085, VIP21 |
| **Gene Description** | caveolin 1, caveolae protein, 22kDa |
| **Omim ID** | 601047 |

| | |
|---|---|
| **Gene Ontology** | Hyperlink |
| **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 |

## Publication Reference

- Caveolin-1 mediates the expression and localization of cathepsin B, pro-urokinase plasminogen activator and their cell-surface receptors in human colorectal carcinoma cells.

  Cavallo-Medved D, Mai J, Dosescu J, Sameni M, Sloane BF.

  Journal of Cell Science 2005 Apr; 118(Pt 7):1493.

  Application: WB-Tr, Human, HCT116 cells

## 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
- Glaucoma
- Head and Neck Neoplasms
- Hypertension
- Liver Cirrhosis
- Lung Neoplasms
- Metabolic Syndrome X
- Multiple Sclerosis
- Neoplasm Recurrence
- Neoplasms
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Sick Sinus Syndrome
- Thrombosis
- Urinary Bladder Neoplasms
- Werner syndrome