

Rabbit Anti-CAV1 Polyclonal Antibody

CPB-1020RH Rabbit(CAV1)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-CAV1 Polyclonal Antibody
Antigen Description	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 (alpha and beta) are encoded by a single transcript from this gene.
specificity	The antibody detects endogenous level of total Caveolin-1 protein.
Target	CAV1
Immunogen	Peptide sequence around aa. 12~16 (H-L-Y-T-V) derived from Human CAVEOLIN-1.
Host	Rabbit
Species	Human
Cross Reactivity	Human; Mouse; Rat
conjugation	N/A
Applications	WB

PACKAGING

Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

ANTIGEN GENE INFORMATION

Gene Name	CAV1 caveolin 1, caveolae protein, 22kDa [Homo sapiens]
Official Symbol	CAV1
Synonyms	CAV1; caveolin 1, caveolae protein, 22kDa; CAV, caveolin 1, caveolae protein, 22kD; caveolin-1; cell growth-inhibiting protein 32; CGL3; BSCL3; VIP21; MSTP085;
GeneID	857
mRNA Refseq	NM_001172895
Protein Refseq	NP_001166366
MIM	601047
UniProt ID	Q03135
Chromosome Location	7q31

Pathway	ALK1 signaling events, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; Basigin interactions, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem;
Function	cholesterol binding; kinase binding; nitric-oxide synthase binding; patched binding; peptidase activator activity; protein binding; protein complex scaffold; receptor binding; structural molecule activity; syntaxin binding;