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Product Information

Recombinant Human Anti-Human CAV1 Monoclonal Antibody

Cat. No.: **HOM-19242**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant humanized antibody expressed in CHO binding to human CAV1.

Antigen Description

Caveolin-1 is a protein that in humans is encoded by the CAV1 gene. 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.

Target

CAV1

Species Reactivity

Human

Type

Human IgG

Expression Host

CHO

Clone

Monoclonal

Purity

>95.0% as determined by analysis by RP-HPLC & analysis by SDS-PAGE.

Applications

ELISA, WB, IHC, FCM, IP, IF. Optimal dilutions/concentrations should be determined by the end user.

Molecular Weight

145.41 kDa

Stability

Samples are stable for up to twelve months from date of receipt at - 20°C and are stable for six months at 4 °C.

Storage

Store it under sterile conditions at -20 °C upon receiving. Recommend to pack the antibody into smaller quantities for optimal storage.

Ship

2-8°C, BLUE ICE

ANTIGEN GENE INFOMATION

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;

Gene ID

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;

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