

Product datasheet for **TA330176**

Caveolin 1 (CAV1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CAV1 antibody: synthetic peptide directed towards the N terminal of human CAV1. Synthetic peptide located within the following region: SGGKYVDSEGHLYTVPIREQGNIYKPNKAMADELSEKQVYDAHTKEIDL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	20 kDa
Gene Name:	caveolin 1
Database Link:	NP_001744 Entrez Gene 857 Human Q03135



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Background:

The scaffolding protein CAV1 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Synonyms:

BSCL3; CGL3; LCCNS; MSTP085; PPH3; VIP21

Note:

Immunogen sequence homology: Human: 100%; Chicken: 93%; Dog: 86%; Horse: 86%; Mouse: 86%; Rabbit: 86%; Rat: 86%; Bovine: 80%; Pig: 80%; Sheep: 80%

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Focal adhesion, Viral myocarditis

Product images:

WB Suggested Anti-CAV1 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control: Human Liver