



# SZABO SCANDIC

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## Produktinformation



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### CAV1 (Human) Recombinant Protein (P01)

**Catalog Number:** H00000857-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human CAV1 full-length ORF (AAH09685, 1 a.a. - 178 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELS  
EKQVYDAHTKEIDLVNDRPKHLNDDVVKIDFEDVIAEP  
EGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALI  
WGIYFAILSFLHIWAVVPCIKSFLIEIQCISRVSIVYHTV  
CDPLFEAVGKIFSNVRINLQKEI

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 45.21

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 857

**Gene Symbol:** CAV1

**Gene Alias:** BSCL3, CAV, CGL3, MSTP085, VIP21

**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]

**References:**

1. A genetic polymorphism in the CAV1 gene associates with the development of bronchiolitis obliterans syndrome after lung transplantation. Kastelijl EA, van Moorsel CH, Kazemier KM, Roothaan SM, Ruven HJ, Kwakkel-van Erp JM, van de Graaf EA, Zanen P, van Kessel DA, Grutters JC. *Fibrogenesis Tissue Repair*. 2011 Nov 1;4:24.
2. Temozolomide modifies caveolin-1 expression in experimental malignant gliomas in vitro and in vivo. Bruyere C, Abeloos L, Lamoral-Theys D, Senetta R, Mathieu V, Le Mercier M, Kast RE, Cassoni P, Vandenbussche G, Kiss R, Lefranc F. *Transl Oncol*. 2011 Apr 1;4(2):92-100.
3. Pathologic Caveolin-1 Regulation of PTEN in Idiopathic Pulmonary Fibrosis. Xia H, Khalil W, Kahm J, Jessurun J, Kleidon J, Henke CA. *Am J Pathol*. 2010 Jun;176(6):2626-37. Epub 2010 Apr 15.