abcam

Product datasheet

Recombinant Human Caveolin-1 protein ab114170

2 Images

Description

Product name	Recombinant Human Caveolin-1 protein
Expression system	Wheat germ
Accession	Q03135
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQ VYDAHTKEID LVNRDPKHLNDDVVKIDFEDVIAEPEGTHSFDGIWKASFT TFTVTKYWFY RLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIEIQCIS RVYSI YVHTVCDPLFEAVGKIFSNVRINLQKEI
Predicted molecular weight	46 kDa including tags
Amino acids	1 to 178
Additional sequence information	There is a GST tag at N-terminal end.

Specifications

Our **Abpromise guarantee** covers the use of **ab114170** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot ELISA
Form	Liquid

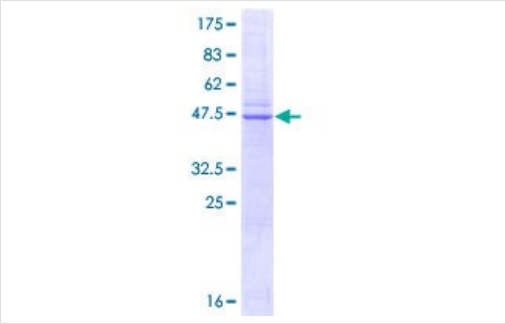
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway.
Tissue specificity	Expressed in muscle and lung, less so in liver, brain and kidney.
Involvement in disease	Defects in CAV1 are the cause of congenital generalized lipodystrophy type 3 (CGL3) [MIM:612526]; also called Berardinelli-Seip congenital lipodystrophy type 3 (BSCL3). Congenital generalized lipodystrophies are autosomal recessive disorders characterized by a near absence of adipose tissue, extreme insulin resistance, hypertriglyceridemia, hepatic steatosis and early onset of diabetes.
Sequence similarities	Belongs to the caveolin family.
Post-translational modifications	The initiator methionine for isoform Beta is removed during or just after translation. The new N-terminal amino acid is then N-acetylated.
Cellular localization	Golgi apparatus membrane. Cell membrane. Membrane > caveola. Membrane raft. Colocalized with DPP4 in membrane rafts. Potential hairpin-like structure in the membrane. Membrane protein of caveolae.

Images



SDS-PAGE - Recombinant Human Caveolin-1 protein (ab114170)

ab114170 on a 12.5% SDS-PAGE Stained with Coomassie Blue.

Western blot - Recombinant Human Caveolin-1 protein (ab114170)

ab18199 recognizes the full length tagged recombinant Caveolin 1 protein (ab114170) which has an expected molecular weight of 46 kDa.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors