PRODUCT INFORMATION

Target	CAV1
Synonyms	BSCL3; CGL3; LCCNS; MSTP085; PPH3; VIP21
Description	Human CAV1 full length protein-MNP
Delivery	In Stock
Uniprot ID	Q03135
Expression Host	HEK293
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Focal adhesion, Viral myocarditis
Molecular Weight	The human full length CAV1 protein has a MW of 20.3 kDa
Formulation & Reconstitution	Lyophilized from PBS. Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	The scaffolding protein 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 mitogen-activated kinase cascade. Caveolin 1 and caveolin 2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. Mutations in this gene have been associated with Berardinelli-Seip congenital lipodystrophy. Alternatively spliced transcripts encode alpha and beta isoforms of caveolin 1.
Usage	Research use only
Conjugate	Unconjugated

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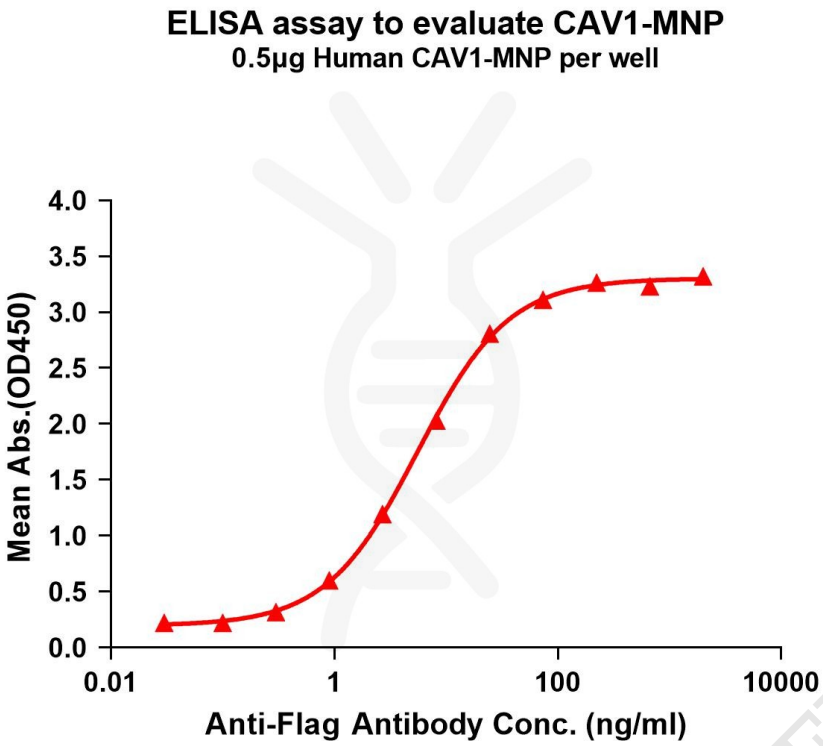


Figure 1. Elisa plates were pre-coated with 0.5μg/per well purified human CAV1 full length membrane nanoparticles. Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CAV1 full length membrane nanoparticles is 5.552ng/ml.

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