

Datasheet for ABIN7320219
SDPR Protein (AA 2-180) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	SDPR
Protein Characteristics:	AA 2-180
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SDPR protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse SDPR Protein (aa 2-180, His Tag)
Sequence:	Gly 2-Ala 180
Characteristics:	A DNA sequence encoding the mouse SDPR (NP_620080.1) N-terminal segment (Gly 2-Ala 180) was expressed, with a polyhistide tag at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE

Target Details

Target:	SDPR
Alternative Name:	SDPR (SDPR Products)
Background:	Background: Serum deprivation-response protein, also known as Phosphatidylserine-binding protein, Cavin-2 and SDPR, is a member of the PTRF / SDPR family. SDPR is highly expressed in heart and lung, and expressed at lower levels in brain, kidney, liver, pancreas, placenta, and

Target Details

skeletal muscle. SDPR is a new regulator of caveolae biogenesis. SDPR is up-regulated in asynchronously growing fibroblasts following serum deprivation but not following contact inhibition and Down-regulated during synchronous cell cycle re-entry. Caveolae are plasma membrane invaginations with a characteristic flask-shaped morphology. They function in diverse cellular processes, including endocytosis. Loss of SDPR causes loss of caveolae. SDPR binds directly to PTRF and recruits PTRF to caveolar membranes. Overexpression of SDPR, unlike PTRF, induces deformation of caveolae and extensive tubulation of the plasma membrane. SDPR overexpression results in increased caveolae size and leads to the formation of caveolae-derived tubules containing Shiga toxin. SDPR is a membrane curvature inducing component of caveolae, and that STB-induced membrane tubulation is facilitated by caveolae. Pleckstrin and SDPR are phosphorylated by protein kinase C (PKC), the interaction between pleckstrin and SDPR was shown to be independent of PKC inhibition or activation. SDPR may facilitate the translocation of nonphosphorylated pleckstrin to the plasma membrane in conjunction with phosphoinositides that bind to the C-terminal PH domain.

Synonym: SDPR

Molecular Weight: 21 kDa

NCBI Accession: [NP_620080](#)

Application Details

Restrictions: For Research Use only

Handling

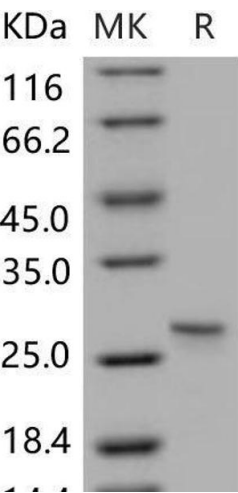
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4, 30 % glycerol

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.