Recombinant Human TAGLN Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TAGLN-3264H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TAGLN MS Standard C13 and N15-labeled recombinant protein (NP_001001522) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a shape change and transformation sensitive actin-binding protein which belongs to the calponin family. It is ubiquitously expressed in vascular and visceral smooth muscle, and is an early marker of smooth muscle differentiation. The encoded protein is thought to be involved in calcium-independent smooth muscle contraction. It acts as a tumor suppressor, and the loss of its expression is an early event in cell transformation and the development of some tumors, coinciding with cellular plasticity. The encoded protein has a domain architecture consisting of an N-terminal calponin homology (CH) domain and a C-terminal calponin-like (CLIK) domain. Mice with a knockout of the orthologous gene are viable and fertile but their vascular smooth muscle cells exhibit alterations in the distribution of the actin filament and changes in cytoskeletal organization.
Molecular Mass	22.6 kDa
AA Sequence	MANKGPSYGMSREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDRGRLGFQVW LKNGVILSKLVNSLYPDGSKPVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTDMF

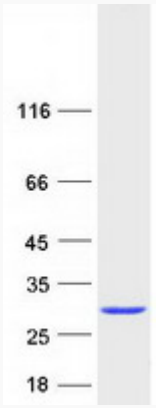
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	QTVDLFEGKDMAAVQRTLMALGSLAVTKNDGHYRGDPNWFMKKAQEHKREFTES QLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIISTRTRPLEQKLISEEDLAANDIL DYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TAGLN transgelin [Homo sapiens (human)]
Official Symbol	TAGLN
Synonyms	TAGLN; transgelin; DKFZp686P11128; SM22; SM22 alpha; SMCC; TAGLN1; transgelin variant 2; WS3 10; SM22-alpha; 22 kDa actin-binding protein; smooth muscle protein 22-alpha; WS3-10; DKFZp686B01212;
Gene ID	6876
mRNA Refseq	NM_001001522
Protein Refseq	NP_001001522

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MIM	600818
UniProt ID	Q01995
SDS-PAGE	

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