EB06281 - Goat Anti-SM22 Alpha / Transgelin Antibody
Size: 100µg specific antibody in 200µl

Target Protein
Principal Names: TAGLN, SM22, SMCC, WS3-10, transgelin, SM22-alpha, DKFZp686P11128, TAGLN1, DKFZp686B01212, transgelin variant 2
Official Symbol: TAGLN
Accession Number(s): NP_003177.2
Human GeneID(s): 6876
Non-Human GeneID(s): 21345 (mouse), 25123 (rat)
Important Comments: NP_003177.2 and NP_001001522.1 represent identical protein. The transgelin protein is found in fibroblasts and smooth muscle and is known as a transformation or shape change protein that is involved with actin cross-linking. Transgelin is one of the earliest markers of differentiated smooth muscle cells and recent evidence suggests that transgelin acts as a tumour suppressor.

Immunogen
Peptide with sequence C-MTGYGRPRQIIS, from the C Terminus of the protein sequence according to NP_003177.2.
Please note the peptide is available for sale.

Purification and Storage
Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested
Peptide ELISA: antibody detection limit dilution 1:4000.
Western blot: Approx 23-24kDa band observed in Human Testis lysates (calculated MW of 22.6kDa according to NP_003177.2 and NP_001001522.1). Preliminary testing also showed a band at approx 23kDa in lysates of cell line HeLa and approx 25kDa in Human Breast and Placenta lysates Recommended concentration: 0.1-1 µg/ml. Primary incubation 1 hour at room temperature.

Species Reactivity
Tested: Human
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow

Specific References
This antibody (previous batch) has been successfully used in Western blot on Human:
Caterina Bernacchioni, Tommaso Capezzuoli, Valentina Vannuzzi, Francesca Malentacchi, Francesca Castiglione, Francesca Cencetti, Marcello Ceccaroni, Chiara Donati, Paola Bruni, Felice Petraglia
Sphingosine 1-phosphate receptors are dysregulated in endometriosis: possible implication in transforming growth factor b–induced fibrosis
Fertil Steril. 2020 Sep 6;S0015-0282(20)30766-4.
PMID: 32907751
This antibody (previous batch) has been successfully used in Western blot on Mouse:
Bruno G, Cencetti F, Pertici I, Japtok L, Bernacchioni C, Donati C, Bruni P.
CTGF/CCN2 exerts profibrotic action in myoblasts via the up-regulation of sphingosine kinase-1/S1P3 signaling axis: Implications in the action mechanism of TGFβ.
PMID: 25457224

This antibody (previous batch) has been successfully used in Western blot on Human:
PMID: 21629665

This antibody (previous batch) has been successfully used in Western blot on Mouse:
Cencetti F, Bernacchioni C, Nincheri P, Donati C, Bruni P.
Transforming growth factor-beta1 induces transdifferentiation of myoblasts into myofibroblasts via up-regulation of sphingosine kinase-1/S1P3 axis.
PMID: 20089836

This antibody (previous batch) has been successfully used in Western blot on Human:
Sphingosine 1-phosphate induces differentiation of adipose tissue-derived mesenchymal stem cells towards smooth muscle cells.
PMID: 19337690
EB06281 (0.3µg/ml) staining of Human Testes lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB06281 (5µg/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. This data is from a previous batch, not on sale.