



## UK Office

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diagnostic or therapeutic use.**

## EB06281-T - Goat Anti-SM22 Alpha / Transgelin Antibody - Trial

Size: 20µg specific antibody in 40µl



### 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 1:32000.

**Western blot:** Approx 24kDa band observed in Human Skeletal Muscle and Testis lysates, and approx 25kDa in Mouse Skeletal Muscle lysates (calculated MW of 22.6kDa according to Human NP\_003177.2 and Mouse NP\_035656.1). These molecular weights are routinely observed by other sources. Recommended concentration: 0.003-0.03 µg/ml. Primary incubation 1 hour at room temperature.

### Species Reactivity

**Tested:** Human, Mouse

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow

### Specific References

**This antibody (previous batch) has been successfully used in WB on Human:**

Caterina Bernacchioni, Margherita Rossi, Valentina Vannuzzi, Matteo Prinszano, Isabelle Seidita, Maryam Raeispour, Angela Muccilli, Francesca Castiglione, Paola Bruni, Felice Petraglia, Chiara Donati

Sphingosine-1-phosphate receptor 3 is a non-hormonal target to counteract endometriosis-associated fibrosis

Fertil Steril. 2024 Apr;121(4):631-641.

PMID: 38072366

**This antibody (previous batch) has been successfully used in Western blot on Mouse:**

Angela Corvino et al.

Antagonizing S1P3 Receptor with Cell-Penetrating Peptides in Skeletal Muscle Fibrosis

Int J Mol Sci. 2021 Aug; 22(16): 8861.

PMID: 34445567

**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  $\beta$ -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 TGF $\beta$ .

Biochim Biophys Acta. 2015 Feb;1851(2):194-202.

PMID: 25457224

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

Donati C, Marseglia G, Magi A, Serrati S, Cencetti F, Bernacchioni C, Nannetti G, Benelli M, Brunelli S, Torricelli F, Cossu G, Bruni P.

Sphingosine 1-phosphate induces differentiation of mesoangioblasts towards smooth muscle. A role for GATA6.

PLoS One. 2011;6(5):e20389.

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.

Mol Biol Cell. 2010 Mar 15;21(6):1111-24.

PMID: 20089836

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

Nincheri P, Luciani P, Squecco R, Donati C, Bernacchioni C, Borgognoni L, Luciani G, Benvenuti S, Francini F, Bruni P.

Sphingosine 1-phosphate induces differentiation of adipose tissue-derived mesenchymal stem cells towards smooth muscle cells.

Cell Mol Life Sci. 2009 May;66(10):1741-54.

PMID: 19337690



EB06281 (0.03 $\mu$ g/ml) staining of Human Skeletal muscle (A) and (0.003 $\mu$ g/ml) Testes (B) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB06281 (0.03 $\mu$ g/ml) staining of Mouse Skeletal muscle lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.