

# GOAT ANTI-SM22 ALPHA / TRANSGELIN ANTIBODY

**SKU:** EB06281



## SPECIFICATIONS

<b>Formulation</b>	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
<b>Unit Size</b>	100 µg
<b>Storage Instructions</b>	Aliquot and store at -20°C. Minimize freezing and thawing.
<b>Synonym / Alias Names</b>	transgelin variant 2 DKFZp686B01212 TAGLN1 DKFZp686P11128 SM22-alpha transgelin WS3-10 SMCC SM22 TAGLN
<b>Accession ID</b>	NP_003177.2
<b>Blocking Peptide</b>	EBP06281
<b>Immunogen</b>	Peptide with sequence C-MTGYGRPRQIIS, from the C Terminus of the protein sequence according to NP_003177.2. 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.
<b>Product Comments</b>	
<b>Peptide Sequence</b>	C-MTGYGRPRQIIS
<b>Purification Method</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Shipping Instructions</b>	Refrigerated
<b>Predicted Species</b>	Human, Mouse, Rat, Dog, Cow
<b>Reactive Species</b>	Human, Mouse
<b>Human Gene ID</b>	6876
<b>Mouse Gene ID</b>	21345
<b>Rat Gene ID</b>	25123
<b>Product Grade</b>	<a href="https://prod-vector-labs-pimcore-assets.s3.us-east-1.amazonaws.com/assets/products/image/elite_medium.png">https://prod-vector-labs-pimcore-assets.s3.us-east-1.amazonaws.com/assets/products/image/elite_medium.png</a>
<b>ELISA Detection Limit</b>	Antibody detection limit dilution 1:32000.
<b>Western Blot</b>	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.

**Application**  
**Type**      Pep-ELISA, WB

## SELECTED REFERENCES

[{"pmid": 25457224, "intro": "**This antibody (previous batch) has been successfully used in Western blot on Mouse:**", "title": "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 $\beta$ 1.", "author": "Bruno G, Cencetti F, Pertici I, Japtok L, Bernacchioni C, Donati C, Bruni P.", "journal": "Biochim Biophys Acta. 2015 Feb;1851(2):194-202."}, {"pmid": 32907751, "intro": "**This antibody (previous batch) has been successfully used in Western blot on Human:**", "title": "Sphingosine 1-phosphate receptors are dysregulated in endometriosis: possible implication in transforming growth factor  $\beta$ -induced fibrosis", "author": "Caterina Bernacchioni, Tommaso Capezzuoli, Valentina Vannuzzi, Francesca Malentacchi, Francesca Castiglione, Francesca Cencetti, Marcello Ceccaroni, Chiara Donati, Paola Bruni, Felice Petraglia", "journal": "Fertil Steril. 2020 Sep 6;S0015-0282(20)30766-4."}, {"pmid": 19337690, "intro": "**This antibody (previous batch) has been successfully used in Western blot on Human:**", "title": "Sphingosine 1-phosphate induces differentiation of adipose tissue-derived mesenchymal stem cells towards smooth muscle cells.", "author": "Nincheri P, Luciani P, Squecco R, Donati C, Bernacchioni C, Borgognoni L, Luciani G, Benvenuti S, Francini F, Bruni P.", "journal": "Cell Mol Life Sci. 2009 May;66(10):1741-54."}, {"pmid": 20089836, "intro": "**This antibody (previous batch) has been successfully used in Western blot on Mouse:**", "title": "Transforming growth factor- $\beta$ 1 induces transdifferentiation of myoblasts into myofibroblasts via up-regulation of sphingosine kinase-1/S1P3 axis.", "author": "Cencetti F, Bernacchioni C, Nincheri P, Donati C, Bruni P.", "journal": "Mol Biol Cell. 2010 Mar 15;21(6):1111-24."}, {"pmid": 21629665, "intro": "**This antibody (previous batch) has been successfully used in Western blot on Human:**", "title": "Sphingosine 1-phosphate induces differentiation of mesoangioblasts towards smooth muscle. A role for GATA6.", "author": "Donati C, Marseglia G, Magi A, Serrati S, Cencetti F, Bernacchioni C, Nannetti G, Benelli M, Brunelli S, Torricelli F, Cossu G, Bruni P.", "journal": "PLoS One. 2011;6(5):e20389."}, {"pmid": 38072366, "intro": "**This antibody (previous batch) has been successfully used in WB on Human:**", "title": "Sphingosine-1-phosphate receptor 3 is a non-hormonal target to counteract endometriosis-associated fibrosis", "author": "Caterina Bernacchioni, Margherita Rossi, Valentina Vannuzzi, Matteo Prisinzano, Isabelle Seidita, Maryam Raeispour, Angela Muccilli, Francesca Castiglione, Paola Bruni, Felice Petraglia, Chiara Donati", "journal": "Fertil Steril. 2024 Apr;121(4):631-641."}, {"pmid": 34445567, "intro": "**This antibody (previous batch) has been successfully used in Western blot on Mouse:**", "title": "Antagonizing S1P3 Receptor with Cell-Penetrating Pepducins in Skeletal Muscle Fibrosis", "author": "Angela Corvino et al.", "journal": "Int J Mol Sci. 2021 Aug; 22(16): 8861."}]

## DOCUMENTS

- [Data Sheet](#)

## GALLERY IMAGES

