

## Product datasheet for **TA591013**

### SM22 alpha (TAGLN) Rabbit Monoclonal Antibody [Clone ID: OTIR1F8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTIR1F8
Applications:	SISCAPA
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human TAGLN (NP_001001522). The exact sequence is proprietary.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	Lot dependent; please refer to CoA along with shipment
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	22.4 kDa
Gene Name:	transgelin
Database Link:	<a href="#">NP_001001522</a> <a href="#">Entrez Gene 21345 Mouse</a> <a href="#">Entrez Gene 25123 Rat</a> <a href="#">Entrez Gene 6876 Human</a> <a href="#">Q01995</a>



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**Background:**

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. [provided by RefSeq, Aug 2017]

**Synonyms:**

SM22; SM22-alpha; SMCC; TAGLN1; WS3-10