

## 36-1709: Monoclonal Antibody to Transgelin (SM22-alpha)(Clone : SPM606)

Clonality :	Monoclonal
Clone Name :	SPM606
Application :	FACS,IF,IHC
Reactivity :	Human, Mouse
Gene :	TAGLN
Gene ID :	6876
Uniprot ID :	Q01995
Format :	Purified
Alternative Name :	TAGLN,SM22,WS3-10
Isotype :	Mouse IgG1, kappa
Immunogen Information	Recombinant full-length human transgelin (TAGLN) protein.

## **Description**

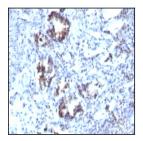
This MAb recognizes a 22kDa protein, identified as Transgelin, also designated SM22-alpha. It may cross-react with SM22beta. Transgelin is expressed abundantly in smooth muscle cells. The human transgelin gene encodes a 201 amino acid protein that contains nuclear factor-binding motifs known to regulate transcription in smooth muscle. During embryogenesis, transgelin is expressed in smooth, cardiac and skeletal muscle, but is restricted during late fetal development and adulthood to all vascular and visceral smooth muscle cells and low levels of expression in heart. Transgelin is down regulated in several transformed cell lines, indicating that a reduction of transgelin expression may be an early indicator of the onset of transformation. Transgelin also binds Actin, causing Actin fibers to gel within minutes of binding. Binding of transgelin to Actin occurs at a ratio of 1:6 Actin monomers.

## **Product Info**

Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 $\mu g$ in 500 $\mu l$ PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

## **Application Note**

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Transgelin Monoclonal Antibody (SPM606)

For Research Use Only. Not for use in diagnostic/therapeutics procedures.