For Research Use Only

transgelin/SM22 Recombinant monoclonal antibody, PBS Only

Catalog Number:83922-2-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
83922-2-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0764

GenBank Accession Number:
BC004927

GeneID (NCBI):
6876

UNIPROT ID:
Q01995

Full Name:
transgelin

Calculated MW:
22 kDa

Observed MW:
19-22 kDa

Purification Method:
Protein A purification

CloneNo.:
240864A11

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Species Specificity:
human, mouse, rat

Background Information

The transgelin family is a protein group belonging to the 22kd actin-related calponin superfamily. Of all three isoforms, transgelin 1 is the best characterized. Transgelin 1, or SM22alpha, is a specific marker for differentiated smooth muscle cells. Transgelin 2, also known as SM22 beta, is expressed by both smooth and non-smooth muscle cells in a temporally and spatially regulated pattern. Trangenlin 3, also known as NP25, is only found in highly differentiated neuronal cells. This antibody was generated against full-length transgelin 1 protein. It can cross-react with other two transgenes based on the sequence similarity.

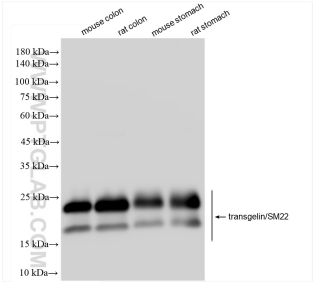
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

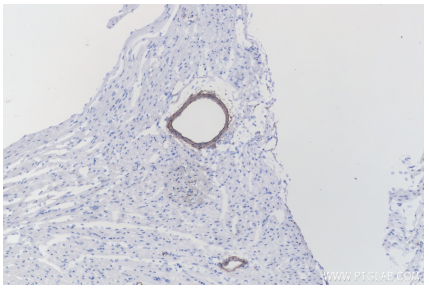
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

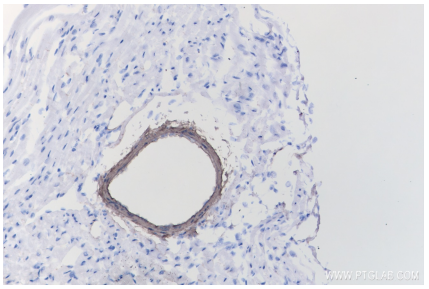
Selected Validation Data



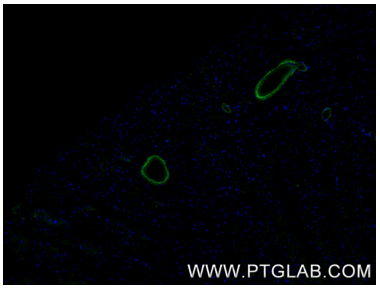
Various lysates were subjected to SDS PAGE followed by western blot with 83922-2-RR (transgelin/SM22 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83922-2-PBS in a different storage buffer formulation.



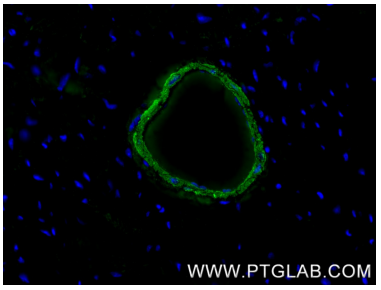
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 83922-2-RR (transgelin/SM22 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83922-2-PBS in a different storage buffer formulation.



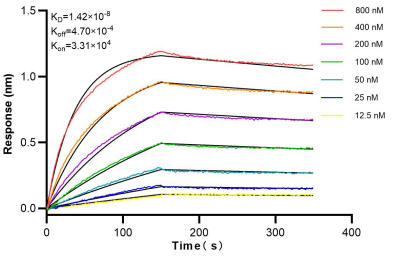
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 83922-2-RR (transgelin/SM22 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83922-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using transgelin/SM22 antibody (83922-2-RR, Clone: 240864A11) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83922-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using transgelin/SM22 antibody (83922-2-RR, Clone: 240864A11) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83922-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83922-2-RR against Human transgelin/SM22 were performed. The affinity constant is 14.2 nM.