

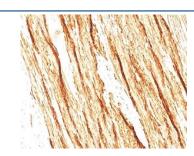
Recombinant Smoothelin Antibody / SMSMO / SMTN [clone SMTN/2320R] (V4050)

| Catalog No. | Formulation | Size |
|----------------|---|--------|
| V4050-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4050-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V4050SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Recombinant RABBIT MONOCLONAL

Bulk quote request

| Availability | 1-3 business days |
|--------------------|--|
| Species Reactivity | Human |
| Format | Purified |
| Clonality | Recombinant Rabbit Monoclonal |
| Isotype | Rabbit IgG, kappa |
| Clone Name | SMTN/2320R |
| Purity | Protein A/G affinity |
| UniProt | P53814 |
| Localization | Cytoplasm, cell surface |
| Applications | Immunohistochemistry (FFPE) : 1-2ug/ml |
| Limitations | This recombinant Smoothelin antibody is available for research use only. |



IHC staining of FFPE human colon tissue with recombinant Smoothelin antibody (clone SMTN/2320R). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



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Description

Smoothelin is found exclusively in contractile smooth muscle cells. It associates with stress fibers and constitutes part of the cytoskeleton. In the vascular system, smoothelin expression is limited to large veins and arteries capable of pulsatile contraction. As a marker for the highly differentiated contractile smooth muscle cell, smoothelin expression is useful for studying vascular malformation and injury. It is a constituent of the smooth muscle cell cytoskeleton protein exclusively found in differentiated smooth muscle cells (SMC). Cells with SMC-like characteristics, such as myofibroblasts and myoepithelial cells, as well as skeletal and cardiac muscle do not contain smoothelin. To distinguish bladder muscularis mucosae (MM) from muscularis propria (MP) muscle bundles is crucial for accurate staging of bladder carcinoma. Strong smoothelin expression is nearly exclusively observed in muscularis propria. Therefore, the staining pattern of MP (strongly positive) and MM (negative or weakly positive) makes this antibody an attractive diagnostic tool. Anti-smoothelin immunostaining can be helpful in differentiating benign (+) from malignant smooth muscle tumors (-), and other mimics (-).

Application Notes

Optimal dilution of the recombinant Smoothelin antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the recombinant Smoothelin antibody.

Storage

Aliquot the recombinant Smoothelin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.