



# Smooth muscle cells (HM19/2): sc-58846

## BACKGROUND

Smooth muscle is a type of non-striated muscle found in many locations in the body including the bladder, abdominal cavity, uterus, male and female reproductive tracts, gastrointestinal tract, respiratory tract, vasculature, skin, and the ciliary muscle and iris of the eye. The cells of the smooth muscle have single nuclei and are generally arranged in sheets or bundles and connected by gap junctions. These cells function to maintain organ dimensions against imposed loads. The cells are organized into thin and thick filament bundles fastened to the sarcolemma via dense areas, and cells are fastened to one another via adherens junctions. Thus, cells are mechanically coupled to each other such that contraction of one cell invokes contraction in an adjoining cell.

## REFERENCES

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## SOURCE

Smooth muscle cells (HM19/2) is a rat monoclonal antibody raised against Smooth muscle cells.

## PRODUCT

Each vial contains 200 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

Smooth muscle cells (HM19/2) is recommended for detection of Smooth muscle cells of human, porcine and canine origin by immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.