

motilin (L-18): sc-69436



The Power to Question

BACKGROUND

Motilin, also known as MLN, is a 115 amino acid secreted peptide that is a cleavage product of the promotilin precursor, a protein that is proteolytically processed to yield motilin and motilin-associated peptide (MAP). Existing in the cells of the small intestine, motilin plays an important role in the rhythmic contraction of duodenal and colonic smooth muscle and is also involved in the regulation of interdigestive gastrointestinal motility. The gene encoding motilin maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

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CHROMOSOMAL LOCATION

Genetic locus: MLN (human) mapping to 6p21.31.

SOURCE

motilin (L-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of motilin of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-69436 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

motilin (L-18) is recommended for detection of motilin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

motilin (L-18) is also recommended for detection of motilin in additional species, including equine, canine and bovine.

Suitable for use as control antibody for motilin siRNA (h): sc-75814, motilin shRNA Plasmid (h): sc-75814-SH and motilin shRNA (h) Lentiviral Particles: sc-75814-V.

Molecular Weight of motilin: 13 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.