

# MMS19 (A-12): sc-135500

## BACKGROUND

MMS19 (MMS19 nucleotide excision repair homolog), also known as MET18, is a 1,030 amino acid nuclear protein containing seven HEAT repeats that belongs to the MET18/MMS19 family. Via its interactions with TFIIF p80 and TFIIF p89 helicases, MMS19 plays a role in nucleotide excision repair (NER) and RNA polymerase II (Pol II) transcription. MMS19 may also function as a transcriptional coactivator of estrogen receptor. While ubiquitously expressed, highest levels of MMS19 have been found in testis. At least five distinct MMS19 protein isoforms exist, which are produced by alternative splicing events. The gene encoding MMS19 maps to human chromosome 10q24.1, and is associated with the risk of pancreatic cancer.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MMS19 (human) mapping to 10q24.1; Mms19 (mouse) mapping to 19 C3.

## SOURCE

MMS19 (A-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of MMS19 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-135500 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MMS19 (A-12) is recommended for detection of MMS19 isoforms 1, 3, 4 and 5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with MMS19 isoform 2.

Suitable for use as control antibody for MMS19 siRNA (h): sc-90393, MMS19 siRNA (m): sc-149483, MMS19 shRNA Plasmid (h): sc-90393-SH, MMS19 shRNA Plasmid (m): sc-149483-SH, MMS19 shRNA (h) Lentiviral Particles: sc-90393-V and MMS19 shRNA (m) Lentiviral Particles: sc-149483-V.

Molecular Weight of MMS19: 113 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **MMS19 (G-12): sc-390028** or **MMS19 (B-9): sc-390658**, our highly recommended monoclonal alternatives to MMS19 (A-12).