

# MATP (C-19): sc-48590

## BACKGROUND

The membrane-associated transporter protein (MATP) is a 530 amino acid protein that spans the lipid bilayer 12 times. MATP is a melanocyte differentiation antigen that is expressed in a high percentage of melanoma cell lines. MATP is transcriptionally modulated by MITF, a melanocyte-specific transcription factor that may act indirectly or bind to a remote regulatory sequence. MATP may play a role in skin cancer, as its gene is expressed in a high percentage of melanoma cell lines, but not at significant levels in normal tissues. Mutations in the MATP gene have also been linked to albinism.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MATP (human) mapping to 5p13.2; Matp (mouse) mapping to 15 A1.

## SOURCE

MATP (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MATP of human origin.

## STORAGE

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

## 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-48590 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MATP (C-19) is recommended for detection of MATP of mouse, rat and 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).

MATP (C-19) is also recommended for detection of MATP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MATP siRNA (h): sc-60986, MATP siRNA (m): sc-60987, MATP shRNA Plasmid (h): sc-60986-SH, MATP shRNA Plasmid (m): sc-60987-SH, MATP shRNA (h) Lentiviral Particles: sc-60986-V and MATP shRNA (m) Lentiviral Particles: sc-60987-V.

Molecular Weight of MATP: 58 kDa.

Positive Controls: SK-MEL-28 cell lysate: sc-2236, C32 whole cell lysate: sc-2205 or B16-F0 cell lysate: sc-2298.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## 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.


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Try **MATP (F-4): sc-377397** or **MATP (7K-2): sc-100780**, our highly recommended monoclonal alternatives to MATP (C-19).