

MUP (R-181): sc-66977

BACKGROUND

Mouse major urinary proteins, known as MUPs, are pheromone-binding proteins that are excreted in the urine where they influence mouse physiology and behavior. MUP mRNAs are present in the liver and several secretory tissues including lachrymal, submaxillary and mammary tissues. MUP proteins are the products of a multi-gene family that exhibit diverse tissue specific, developmental and hormonal controls. Several MUP protein isoforms exist and are expressed and secreted by sexually mature male mice. The broad chemical class of pheromones that bind to MUPs are believed to be accommodated within a β -barrel motif. Testosterone treatment influences the MUP phenotype by increasing MUP excretion and altering the relative proportions of each isoform. As an androgen-dependent protein present in adult male urine, MUP may influence olfactory cues through mediating differential pheromone-binding profiles.

REFERENCES

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SOURCE

MUP (R-181) is a rabbit polyclonal antibody raised against amino acids 1-181 representing full length MUP of rat origin.

PRODUCT

Each vial contains 200 μ g IgG 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

MUP (R-181) is recommended for detection of a broad range of MUP isoforms of rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

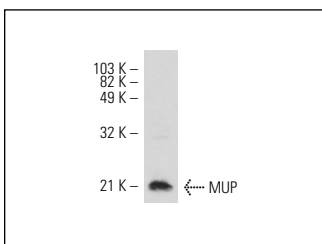
Molecular Weight of MUP: 21 kDa.

Positive Controls: rat liver extract: sc-2395.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



MUP (R-181): sc-66977. Western blot analysis of MUP expression in rat liver tissue extract.

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.



Try **MUP (F-3): sc-374075**, our highly recommended monoclonal alternative to MUP (R-181).