



Mesotrypsinogen (2C4): sc-80576

BACKGROUND

Mesotrypsinogen is an isoform of human Trypsin, belonging to the Trypsin family of serine proteases. Mesotrypsinogen is known to be resistant to common Trypsin inhibitors such as SBTI and SPINK1, which may contribute to pathogenesis of pancreatitis by reducing the protective levels of SPINK1 in the pancreas. A minor pancreatic digestive enzyme that degrades dietary Trypsin inhibitors in the gut, Mesotrypsinogen may function to facilitate the digestion of foods rich in natural Trypsin inhibitors. Mesotrypsinogen migrates to the brain and pancreas and operates on peptide linkages involving the carboxyl group of lysine or Arginine. The gene encoding the Mesotrypsinogen protein maps to the locus of T cell receptor β variable orphans on chromosome 9.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRSS3 (human) mapping to 9p13.3.

SOURCE

Mesotrypsinogen (2C4) is a mouse monoclonal antibody raised against full length native Mesotrypsinogen from pancreatic tissue 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.

RESEARCH USE

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

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Mesotrypsinogen (2C4) is recommended for detection of Trypsin, trypsinogen and Trypsin in complex with α 1 antitrypsin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Mesotrypsinogen siRNA (h): sc-61020, Mesotrypsinogen shRNA Plasmid (h): sc-61020-SH and Mesotrypsinogen shRNA (h) Lentiviral Particles: sc-61020-V.

Molecular Weight of Mesotrypsinogen: 31 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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.

PROTOCOLS

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