**BACKGROUND**

Lysosome-associated membrane proteins (LAMP) are glycosylated type I membrane proteins that play a role in the biogenesis of the pigment melanin. LAMP-5, also known as C20orf103, is a 280 amino acid protein that belongs to the LAMP family and is mainly found in cytoplasmic vesicles of the neuronal cell body. LAMP-5 is up-regulated upon CpG activation and down-regulated upon Toll-like receptor (TLR) ligands.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: LAMP5 (human) mapping to 20p12.2; Lamp5 (mouse) mapping to 2 F3.

**SOURCE**

LAMP-5 (E-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 173-196 within an extracellular domain of LAMP-5 of human origin.

**PRODUCT**

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-398190 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**STORAGE**

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

**APPLICATIONS**

LAMP-5 (E-8) is recommended for detection of LAMP-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

LAMP-5 (E-8) is also recommended for detection of LAMP-5 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for LAMP-5 siRNA (h): sc-72692, LAMP-5 siRNA (m): sc-141851, LAMP-5 shRNA Plasmid (h): sc-72692-SH, LAMP-5 shRNA Plasmid (m): sc-141851-SH, LAMP-5 shRNA (h) Lentiviral Particles: sc-72692-V and LAMP-5 shRNA (m) Lentiviral Particles: sc-141851-V.

Molecular Weight of LAMP-5 isoforms: 27/31 kDa.

Positive Controls: T98G cell lysate: sc-2294, U-251-MG whole cell lysate: sc-364176 or IMR-32 cell lysate: sc-2409.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG (Human) HRP: sc-72692-SH
2) Immunoprecipitation: use Protein L-agarose: sc-2336 (0.5 ml agarose/2.0 ml), 3) Immunofluorescence: use m-IgG HRP: sc-72692-I-FITC or m-IgG HRP: sc-72692-PE (starting dilution 1:50-1:1000).

**DATA**

LAMP-5 (E-8): sc-398190. Western blot analysis of LAMP-5 expression in U-251-MG (A), IMR-32 (B), SH-SY5Y (C), EOC 20 (D) and C6 (E) whole cell lysates.

LAMP-5 (E-8): sc-398190. Western blot analysis of LAMP-5 expression in T98G (A) and U-251-MG (B) whole cell lysates.

**RESEARCH USE**

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

**PROTOCOLS**

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