**BACKGROUND**

MRP-L28 (38S ribosomal protein L28), melanoma-associated antigen recognized by T lymphocytes, is a mitochondrial protein that belongs to the ribosomal protein L28 family. MRP-L28 potentially represents an important therapeutic reagent for HLA-A24 (A24) patients as this antigen is recognized by tumor-infiltrating lymphocyte (TIL) 1290, which targets the A24 serotype. HLA-A24 (A24) is an HLA-A serotype that identifies the more common HLA-A24 gene products. A24 is common in Austroasian and has one of the highest A allelic frequencies for a number of peoples, including Papua New Guineans, indigenous Taiwanese (eastern tribals), Yupik and Greenland Eskimos. MRP-L28 is found in a variety of normal tissues including spleen, testis, thymus, liver, kidney, brain, adrenal, lung and retinal tissue.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MRPL28 (human) mapping to 16p13.3; Mrpl28 (mouse) mapping to 17 A3.3.

**SOURCE**

MRP-L28 (A-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 17-40 of MRP-L28 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 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-390714 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

MRP-L28 (A-10) is recommended for detection of MRP-L28 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).

Suitable for use as control antibody for MRP-L28 siRNA (h); sc-62643, MRP-L28 siRNA (m); sc-62644, MRP-L28 shRNA Plasmid (h); sc-62643-SH, MRP-L28 shRNA Plasmid (m); sc-62644-SH, MRP-L28 shRNA (h) Lentiviral Particles: sc-62643-V and MRP-L28 shRNA (m) Lentiviral Particles: sc-62644-V.

Molecular Weight of MRP-L28: 30 kDa.

Positive Controls: Hela whole cell lysate: sc-2200, Caco-2 cell lysate: sc-2262 or NTERA-2 cl.D1 whole cell lysate: sc-364181.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κBP-FITC: sc-516140 or m-IgG κBP-HRP: sc-516102 or IgG κBP-HRP (Cruz Marker). 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κBP-FITC: sc-516140 or m-IgG κBP-PE: sc-516141 (dilution range 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Mounting Medium: sc-359850.

**DATA**

**RESEARCH USE**

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