MRP-L28 (A-10): sc-390714

**BACKGROUND**

MRP-L28 (38S ribosomal protein L28, melanoma-associated antigen recognized by T lymphocytes) is a mitochondrial protein that belongs to the ribosomal protein L28P 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 a split antigen that is also recognized by the A9 broad antigen type and the similar A23 types. A24 is common in Austronesia and has one of the highest A allele 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; Mrl28 (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).


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® B-P-HRP: sc-516102 or m-IgG® B-HRP (Cruz Marker®) and H2Aβ siRNA (m): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2338 (0.5 ml agarose/2.0 ml), 3) Immunofluorescence: use m-IgG® FITC: sc-516140 or m-IgG® PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

![Western blot analysis of MRP-L28 expression in HeLa (A) and NTERA-2 cl.D1 (B) whole cell lysates and rat heart tissue extract (C).](image1)

![Western blot analysis of MRP-L28 expression in HeLa (A) and NTERA-2 cl.D1 (B) whole cell lysates.](image2)

**RESEARCH USE**

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