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Crry (m2): 293T Lysate: sc-119473

BACKGROUND

Human membrane cofactor protein (MCP), also designated CD46, is a widely distributed complement regulator. In mouse, expression of MCP is largely restricted to testis, while a related, widely expressed protein, Crry, appears to perform the regulatory activity of MCP. Crry (for murine complement receptor-related gene Y), protects the body from damage inflicted by inflammation and modulates renal interstitial disease induced by proteinuria. A functional ortholog of human decay-accelerating factor (DAF, CD55) and membrane cofactor protein (MCP, CD46), Crry protects cells from homologous complement by inhibiting the complement proteins C3 and C4 convertases from marking foreign cells for destruction. Sequence analysis suggests that Crry may be the mouse genetic homolog of the CD35 antigen encoded by the human gene CR1. Manipulation of Crry may play a role in treating central nervous conditions such as traumatic brain injury or stroke. Deletion of the gene encoding Crry may play a role in miscarriages.

REFERENCES

- Kurtz, C.B., et al. 1990. The murine complement receptor gene family. IV. Alternative splicing of Cr2 gene transcripts predicts two distinct gene products that share homologous domains with both human CR2 and CR1. *J. Immunol.* 144: 3581-3591.
- Molina, H., et al. 2002. Complement-mediated clearance of erythrocytes: mechanism and delineation of the regulatory roles of Crry and DAF. Decay-accelerating factor. *Blood* 100: 4544-4549.
- Aslam, M., et al. 2003. The extended multidomain solution structures of the complement protein Crry and its chimeric conjugate Crry-Ig by scattering, analytical ultracentrifugation and constrained modelling: implications for function and therapy. *J. Mol. Biol.* 329: 525-550.
- Lee, Y.L., et al. 2004. The embryotrophic activity of oviductal cell-derived complement C3b and iC3b, a novel function of complement protein in reproduction. *J. Biol. Chem.* 279: 12763-12768.
- Muhlfeld, A.S., et al. 2004. Overexpression of complement inhibitor Crry does not prevent cryoglobulin-associated membranoproliferative glomerulonephritis. *Kidney Int.* 65: 1214-1223.
- Gelderman, K.A., et al. 2004. Tumor-specific inhibition of membrane-bound complement regulatory protein Crry with bispecific monoclonal antibodies prevents tumor outgrowth in a rat colorectal cancer lung metastases model. *Cancer Res.* 64: 4366-4372.
- Ohta, R., et al. 2004. Mouse complement receptor-related gene Y/p65-neutralized tumor vaccine induces antitumor activity *in vivo*. *J. Immunol.* 173: 205-213.
- Antic Stankovic, J., et al. 2004. The role of rat Crry, a complement regulatory protein, in proliferation of thymocytes. *Life Sci.* 75: 3053-3062.
- He, C., et al. 2005. Complement inhibitors targeted to the proximal tubule prevent injury in experimental nephrotic syndrome and demonstrate a key role for C5b-9. *J. Immunol.* 174: 5750-5757.

CHROMOSOMAL LOCATION

Genetic locus: Cr11 (mouse) mapping to 1 H6.

PRODUCT

Crry (m2): 293T Lysate represents a lysate of mouse Crry transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Crry (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Crry antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

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.