



UNIVERSITY of NORTH TEXAS HEALTH SCIENCE CENTER

Technology Transfer & Commercialization

Monoclonal Antibody Against CS1 (CD319) Receptor

Learn more!

Robert McClain, PhD
Associate Vice President
rmcclain@hsc.unt.edu
817-735-2618

Research Tool

2000-31

Our Inventors

Dr. Porunellor Mathew
pmatthew@hsc.unt.edu

Patent Status

US 7,041,499

Publications

"Molecular and functional characterization of a CS1 (CRACC) splice variant expressed in human NK cells that does not contain immunoreceptor tyrosine-based switch motifs" *Eur J Immunol* 34(10):2791 (2004)

"CS1, a novel member of the CD2 family, is homophilic and regulates NK cell function" *Mol Immunol* 39(1-2):1 (2002)

3500 Camp Bowie Blvd
Fort Worth, TX 76107
Phone: 817-735-5147
FAX: 817-735-5485
techtransfer@hsc.unt.edu

Application

- Useful in biological response modification studies involving the activation of human NK cells and B cells. Activation of the CS1 receptor increases NK cell cytotoxicity against tumor targets. Cross-linking CS1 on B cells with mAb 1G10 induces B cell proliferation and cytokine production.

Details

mAb 1G10

- Recognizes the CS1 receptor expressed on human NK cells, T cells, and activated B cells
- Also recognizes the two isoforms CS1-L and CS1-S
- Tested in immunoprecipitation
- Induces proliferation of B cells and production of cytokines
- Increases human NK cell cytotoxicity against tumor agents. CS1-L transfectants, but not CS1-S transfectants
- Increases calcium flux of CS1-L transfectants, but not CS1-S transfectants