



Catalog Number: CH22137

Host: Chicken

Product Type: Chicken Polyclonal

Species Reactivity: Human, Monkey

Immunogen Sequence: Full length recombinant human MARCKS expressed in and purified from *E. coli*.

Format: Supplied as an aliquot of IgY preparation plus 5mM NaN3

Applications: Immunofluorescence: 1:500-1,000
Immunohistochemistry: 1:500-1,000
Western Blot: 1:5,000-10,000

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: The antibody can be stored at 2° - 8° C for 12 months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

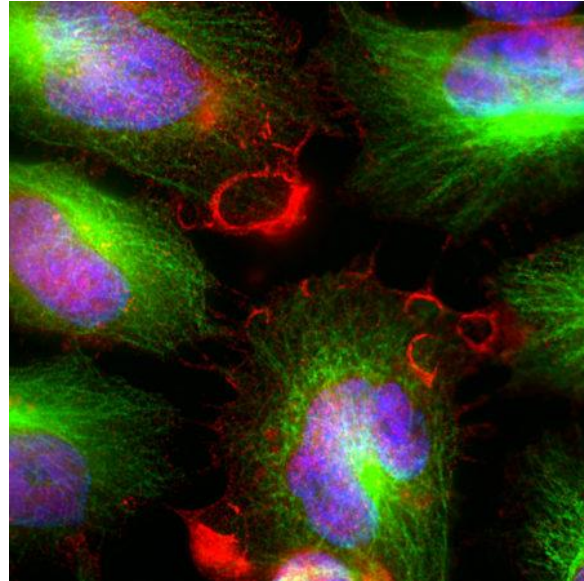
Application Notes

Description/Data

Myristoylated alanine rich C-kinase substrate, hence MARCKS, was originally discovered by as a major substrate for protein kinase C in the brain and other tissues. MARCKS interacts with actin and calcium in a manner regulated by protein kinase C. It is a major protein of the brain concentrated in the synapses of neurons and is membrane localized due to the N-terminal lipid myristoyl group. Antibody to MARCKS can therefore be used as a marker of synaptic regions. Genetic knock out of MARCKS in transgenic mice is perinatal lethal and associated with aberrant brain development suggesting a fundamental importance in the CNS.

This antibody was made against recombinant full length human MARCKS expressed in and purified from *E. coli*. The antibody works well on human cells and tissues but is not recommended for work on rodent material.

Image: Immunofluorescent analysis of HeLa cells stained with chicken pAb to MARCKS, CH22137, dilution 1:5,000 in red, and costained with mouse mAb to β -tubulin, dilution 1:10,000 in green. The blue is Hoechst staining of nuclear DNA. The antibody binds to MARCKS protein expressed in the plasma membrane and cytoplasm, while the β -tubulin antibody stains cytoplasmic microtubules.



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