

Product datasheet for **TA336534**

MARCKS Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:20000, IF: 1:500-1:5000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Full length recombinant rat MARCKS expressed in and purified from E. coli. [UniProt# P30009]
Formulation:	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Whole antisera
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	80 kDa
Gene Name:	myristoylated alanine rich protein kinase C substrate
Database Link:	NP_002347 Entrez Gene 25603 Rat P29966



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Background:

Actin binding protein MARCKS (myristoylated alanine-rich C kinase substrate) is a major substrate of PKC, and alterations in PKC-MARCKS-actin axis are critical to several biological processes such as motility, proliferation, invasion, adhesion, cell spreading phagocytosis, secretion and membrane trafficking. Intracellular MARCKS is normally attached to cytoplasmic face of plasma membrane and when phosphorylated by activated PKC, MARCKS translocates from plasma membrane to cytoplasm. MARCKS regulates cell movement by controlling actin cytoskeleton homeostasis and filopodium/lamellipodium formation. MARCKS binds to F-actin, but not to monomeric G-actin, independently of its phosphorylation status and when unphosphorylated, it induces cell migration. MAPK8 can phosphorylate MARCKS which leads to induction of actin bundles formation/stabilization followed by reduction in actin plasticity and restricted cell movement including neuronal/cancer cell migration. MARCKS has also been proposed to be involved in coupling the PKC and calmodulin signaling systems. MARCKS is implicated in the pathogenesis of various malignancies such as cancer of pituitary, thyroid, breast, colon, and small intestine as well as melanoma, glioblastoma multiforme cancer and cholangiocarcinoma.

Synonyms:

80K-L; MACS; PKCSL; PRKCSL

Note:

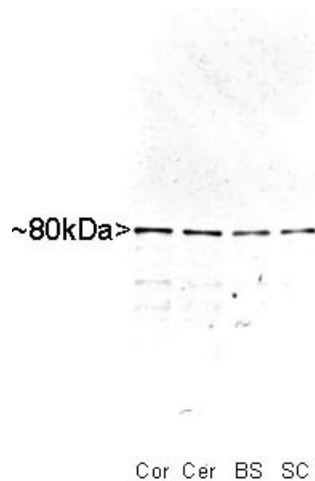
This MARCKS antibody is useful for Immunocytochemistry/Immunofluorescence, ABC or other enzyme linked immunocytochemical procedures and Western blotting.

Protein Families:

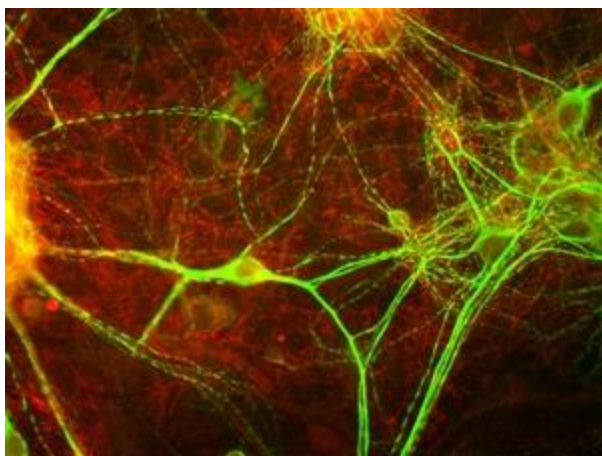
Druggable Genome

Protein Pathways:

Fc gamma R-mediated phagocytosis

Product images:

Western Blot: MARCKS Antibody TA336534 - Western blot of whole rat cortex (Co), cerebellum (Ce), brain stem (BS) and spinal cord (SC) homogenate stained with RPCA-MARCKS, at dilution of 1:10,000. A prominent band running with an apparent SDS-PAGE molecu



Immunocytochemistry/Immunofluorescence:
MARCKS Antibody TA336534 - View of mixed
neuron/glia cultures stained with our MARCKS
antibody (red) and NB300-213, our antibody to
MAP2 made in chicken. Note that the MARCKS
antibody stains vesicular structures