

PRODUCT DATA SHEET

Product Name: ANTI-MARCKS ANTIBODY

Product Code: P40017-100

Pack Size: 100 µL

Description: Myristoylated Alanine-Rich C Kinase Substrate (MARCKS) is a major substrate for phosphorylation by protein kinase C (PKC) (Ouimet et al., 1990) and is concentrated in synapses of neurons. It appears to function in synaptic vesicle cycling and has been shown to bind both actin and calmodulin in vitro (Hartwig et al. 1992). Deletion of the MARCKS gene in mice results in embryonic brain defects and death (Stumpo et al. 1995). MARCKS is a member of a family of calmodulin binding proteins and phosphorylation of Ser^{152/156} modulates the binding of MARCKS to calmodulin (Verghese et al., 1994).

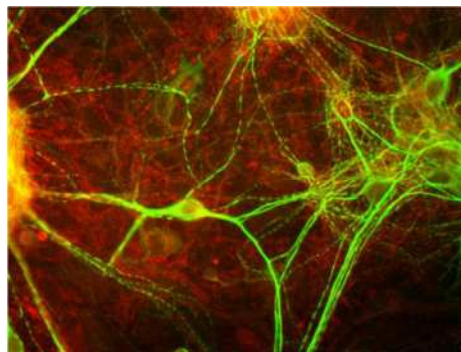
Physical State: Liquid; Neat serum.

Storage/Stability: Stable at -20 °C for at least 1 year. For long term storage -20 °C is recommended

Purification Method: Unpurified neat serum.

Shipping Conditions: Domestic: Blue Ice
 International: Blue Ice or Dry Ice

Immunostaining
 Mixed neuron/glia cultures stained with MARCKS antibody (red) and anti-MAP2 (green)



Host Species: Rabbit (Polyclonal)

Mr (kDa): 80

Immunogen: Recombinant MARCKS expressed in and purified from *E. coli*.

Species Reactivity: The antibody has been directly tested for reactivity in rat. It is expected that it will work on other mammalian tissues.

Recommended Antibody Dilutions:

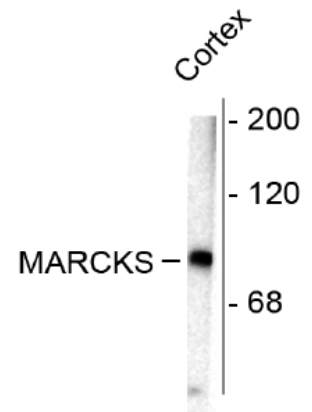
WB: 1:10,000
IF: 1:500

References:

- 1) Ouimet CC et al. (1990) *J Neurosci* 10:1683-1698.
- 2) Hartwig JH et al. (1992) *Nature* 356: 618-622
- 3) Stumpo DJ et al. (1995) *Proc. Nat. Acad. Sci.* 92; 944-948.
- 4) Verghese GM et al. (1994) *J Biol Chem* 269:9361-9367.

Western Blot

Rat cortex lysate showing specific immunolabeling of the ~80k MARCKS protein.



Application Key: WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation