**Anti-MARCKS**

**Catalog Number:** 1105-MARCKS  
**Size:** 100 µl

**Product Description:** Rabbit polyclonal antibody

**Applications:**  
- **WB:** 1:10,000  
- **IF:** 1:500

**Antigen:** 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.

**Biological Significance:** 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<sup>152/156</sup> modulates the binding of MARCKS to calmodulin (Verghese et al., 1994).

**Purification Method:** Unpurified neat serum.

**Antibody Specificity:** Specific for the ~80k MARCKS protein

---

**WB =** Western Blot  
**IF =** Immunofluorescence  
**IHC =** Immunohistochemistry  
**IP =** Immunoprecipitation

**Packaging:** 100 µl neat serum.

**Storage and Stability.** For long term storage ~20°C is recommended. Stable at ~20°C for at least 1 year.

**Shipment:** Domestic - Blue Ice; International – Blue Ice or Dry Ice.
Quality Control Tests: Western blots performed on each lot.

References:

