Pel-Freez® BIOLOGICALS

205 North Arkansas Street
Rogers, AR 72756

PRODUCT DATA SHEET

Product Name: **ANTI-PHOSPHO-Ser$^{152/156}$ MARCKS ANTIBODY**

Product Code: P40018-100

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). The phosphorylation of Ser$^{152/156}$ can be used as a measure of PKC activation although these sites are also phosphorylated by PRK1 (Palmer et al., 1996) 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; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

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

Purification Method: Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

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

Host Species: Rabbit (Polyclonal)

***Mr* (kDa):** 87

Immunogen: Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser$^{152/156}$ of MARCKS. Specific for the ~87k MARCKS protein phosphorylated at Ser^{152} and Ser^{156} in Western blots. Immunolabeling is blocked by the phosphopeptide used as the antigen but not by the corresponding dephosphopeptide. The immunolabeling is completely eliminated by λ-phosphatase.

Species Reactivity: The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will react with bovine, chicken, human, mouse, Xenopus and zebra fish based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

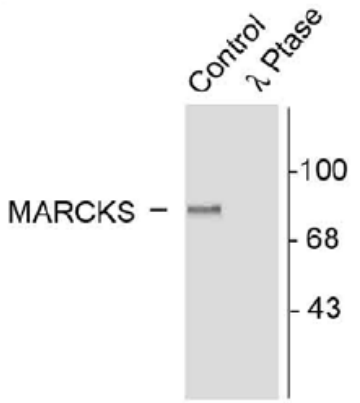
Recommended Antibody Dilutions:

WB: 1:1000

References:

1) Ouimet CC et al. (1990) *J Neurosci* 10:1683-1698.
2) Palmer RH et al. (1996) *FEBS Lett* 378:281-285.
3) Verghese GM et al. (1994) *J Biol Chem* 269:9361-9367.

Western Blot
Rat brain lysate showing specific immunolabeling of the ~87k MARCKS protein phosphorylated at Ser$^{152/156}$ (Control). The immunolabeling is completely eliminated by treatment with λ-Phosphatase, lane 2.



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

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