COSMO BIO CO., LTD.
Inspiration for Life Science

Trans Genic Inc.

Code No.KAL-KT042-EX

For research use only

Anti-MARCKS monoclonal antibody

(Clone No.MAR11/2)

Myristoylated alanine-rich C kinase substrate (MARCKS), a specific substrate for protein kinase C, is abundant in the brain. MARCKS binds calmodulin under Ca^{2+} or actin under non-Ca^{2+} conditions. Phosphorylation of MARCKS (P-MARCKS) can be used as an indicator of protein kinase C activation in intact cells. It has been shown that P-MARCKS has relatively weaker binding activity to calmodulin and actin compared with MARCKS.
Pathophysiologically, P-MARCS is also detected in the brain of Alzheimer's disease patients and in the smooth muscle cells of arteriosclerosis.

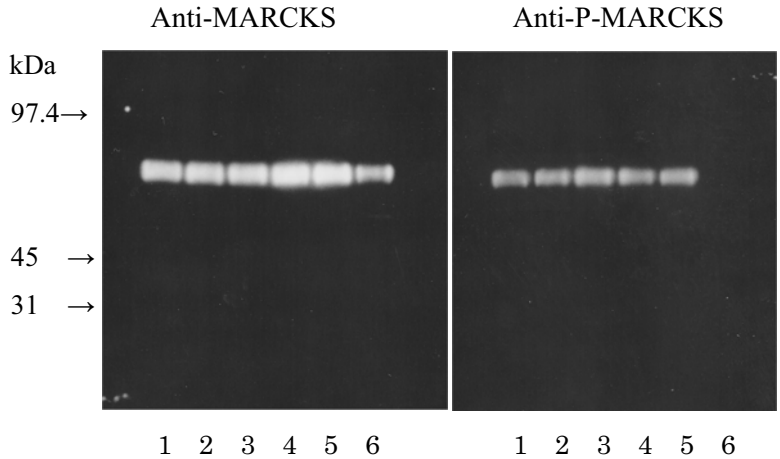
This antibody is specific to MARCKS, so that it is very useful for analyzing phosphorylated status of MARCKS together with using anti-P-MARCKS polyclonal antibody (Code No.KY016).

This antibody could be used for western blotting and immunohistchemistry.

Package Size	50µg (200µL/vial)
Format	Rat monoclonal antibody 0.25 mg/mL
Buffer	Block Ace as a stabilizer, containing 0.1% Proclin as a bacteriostat
Storage	Store below –20℃ Once thawed, store at 4℃. Repeated freeze-thaw cycles should be avoided.
Clone No.	MAR11/2
Subclass	IgG2a
Purification method	The lymphocytes from rat, immunized with C terminal peptides of rat MARCKS, were fused to mouse myeloma SP2 cells. The cell line (MAR11/2) with positive reaction was grown in serum free medium from which the antibody was purified by Protein G affinity chromatography.

Working dilution for immunohistochemistry: about 1~ 5µg/mL

The reactivity of each antibody to MARCKS and P-MARCKSusing western blotting.



Rane No.
1: C6 cell activated by beta-PMA 0 min
2: 15 min
3: 30 min
4: 45 min
5: 60 min
6: C6 cell no treatment (DMSO)

Anti-MARCKS monoclonal antibody

(Clone No.MAR11/2)

【Reference】

1. SD Rose et al, Differential expression of MARCKS and other calmodulin binding protein kinase C substrate in cultured neuroblastoma and glinoma cells. J.Neurochem.63, 2314-2323,1994

Distributor

COSMO BIO CO., LTD.
Inspiration for Life Science
TOYO EKIMAE BLDG. 2-20, TOYO 2CHOME
KOTO-KU, TOKYO 135-0016, JAPAN
TEL : +81-3-5632-9617
FAX : +81-3-5632-9618
URL : http://www.cosmobio.co.jp/
e-mail : export@cosmobio.co.jp

Manufacturer

Trans Genic Inc.
7-1-6 Minatojimaminami-machi,
Chuo-ku, Kobe,650-0047 JAPAN
TEL : +81-78-306-0590
FAX : +81-78-306-0589
URL : http://www.transgenic.co.jp/
e-mail : techstaff@transgenic.co.jp