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12-4338: Phospho-MARCKS (Ser167/170) (Clone: C9) rabbit mAb

Clonality :	Monoclonal
Clone Name :	MARCKSS167170-C9
Application :	FACS,WB
Reactivity :	Human, Mouse, Rat
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	Myristoylated alanine-rich C-kinase substrate, Protein kinase C substrate, PKCSL, 80 kDa protein light chain, MACS, PRKCSL
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding Ser167/170 of human phospho MARCKS

Description

MARCKS (myristoylated alanine-rich C kinase substrate) is a major PKC substrate expressed in all eukaryotic cells(1,2). It binds to and cross-links actin filaments to serve as a bridge between Ca2+/calmodulin and PKC signaling and attenuates phosphatidylinositol 4,5-bisphosphate plasma membrane signaling (3). MARCKS is involved with cell mobility, phagocytosis, membrane traffic, cell adhesion, and mitogenesis. Ser159, 163, 167 and 170 of MARCKS are phosphorylated by PKC in response to cell groeth and cellular stress (4). MARCKs phosphorylation is believe to induce its tranlocation from plasma membrane to cytoplasm.

Product Info

Amount :	20 µl / 200 µl
Content :	1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1Ã‚Âµg/mL - 0.001Ã‚Âµg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

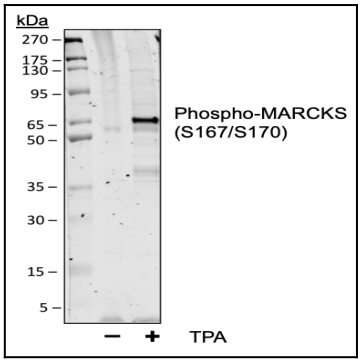

Fig-1: Western blot analysis of NIH3T3 cell extract untreated or treated with TPA using Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 at 0.1 µg/mL.

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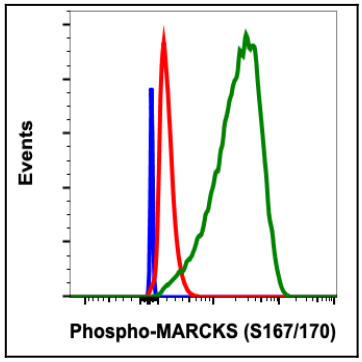

Fig 2 : Flow cytometric analysis of C6 cells, secondary antibody only negative control (blue) or treated with staurosporine (red) or with UV+TPA (green) using Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 at 0.01 µg/mL.

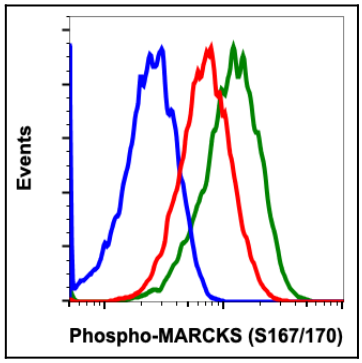

Fig-3: Flow cytometric analysis of 293T cells, secondary antibody only negative control (blue) or untreated (red) or treated with UV+TPA (green) using Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 at 0.01 µg/mL.

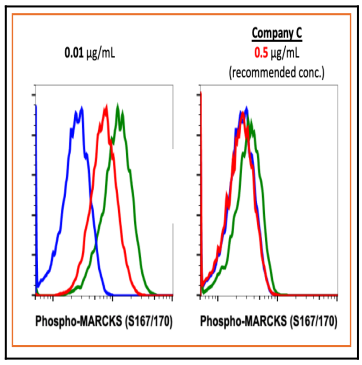

Fig-4: Flow cytometric analysis of 293T cells secondary antibody only negative control (blue) or untreated (red) or treated with UV+TPA (green) using 0.1 µg/mL of Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 at 0.01 µg/mL or Company C antibody at 0.5 µg/mL (manufacturer's recommended concentration).