Phospho-MARCKS (Ser167/170) (C9) rabbit mAb APC conjugate

www.abwizbio.com
Support: info@abwizbio.com
Order: sales@abwizbio.com

Catalog: #2449 **Store at:** 2-8ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

Format: APC

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.09% NaN3, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse,Rat

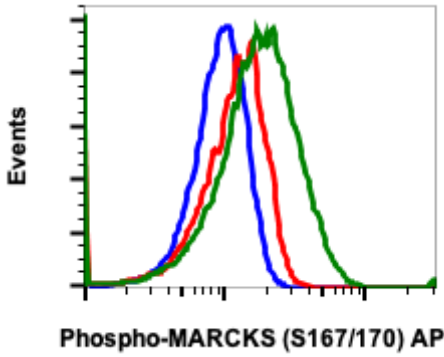
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: 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.

References:

1. El Amri M et al., (2018) J Biomed Sci 25(1):43. doi: 10.1186/s12929-018-0445-
2. Aderem A. (1992) Cell 71:713-6.
3. Hartwig JH, et al., (1992) Nature 356:618-22.
4. Bhat NR. et al., (1991) J Neurisci Res 30: 447-54



Phospho-MARCKS (S167/170) APC

Flow cytometric analysis of C6 cells, isotope IgG-FITC stained staurosprine treated cells as negative control (blue) or treated with staurosporine (red) or with UV+TPA (green) and stained using Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 APC conjugate. Cat. #2449.