

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

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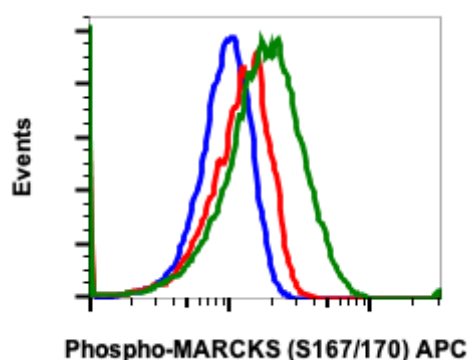
**Catalog:** #2449

**Store at:** 2-8°C

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

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

<b>Format:</b>	APC
<b>Cross Reactivity:</b>	Predicted to work with mouse, rat and other homologues.
<b>Formulation:</b>	1X PBS, 0.09% NaN <sub>3</sub> , 0.2% BSA
<b>Preparation:</b>	Protein A+G
<b>Reactivity:</b>	Human,Mouse,Rat
<b>Recommended Usage:</b>	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.
<b>Immunogen:</b>	A synthetic phospho-peptide corresponding to residues surrounding Ser167/170 of human phospho MARCKS
<b>Description:</b>	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 Ca <sup>2+</sup> /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 growth and cellular stress (4). MARCKS phosphorylation is believed to induce its translocation from plasma membrane to cytoplasm.
<b>References:</b>	<ol style="list-style-type: none"><li>1. El Amri M et al., (2018) J Biomed Sci 25(1):43. doi: 10.1186/s12929-018-0445-</li><li>2. Aderem A. (1992) Cell 71:713-6.</li><li>3. Hartwig JH, et al., (1992) Nature 356:618-22.</li><li>4. Bhat NR. et al., (1991) J Neurosci Res 30: 447-54</li></ol>



Flow cytometric analysis of C6 cells, isotope IgG-FITC stained staurosporine 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.