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

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Catalog: #2446

Store at: -20ºC

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

Applications	Detection	Clonality	Isotype
Flow Cytometry,WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

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

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse,Rat

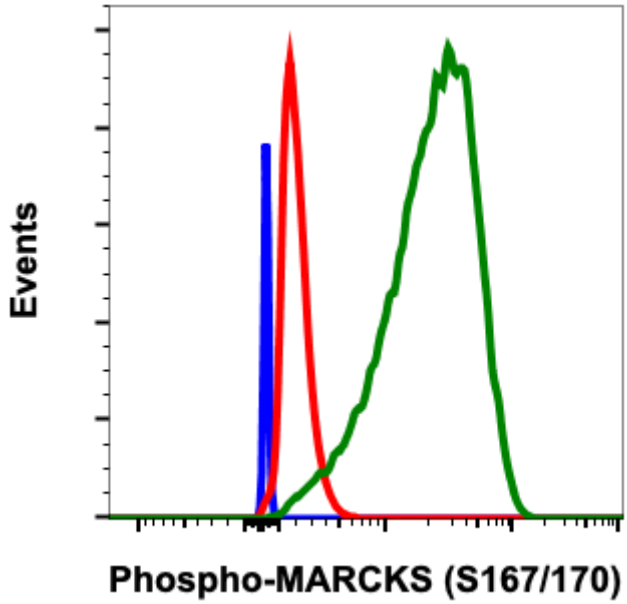
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser167/170 of human phospho MARCKS

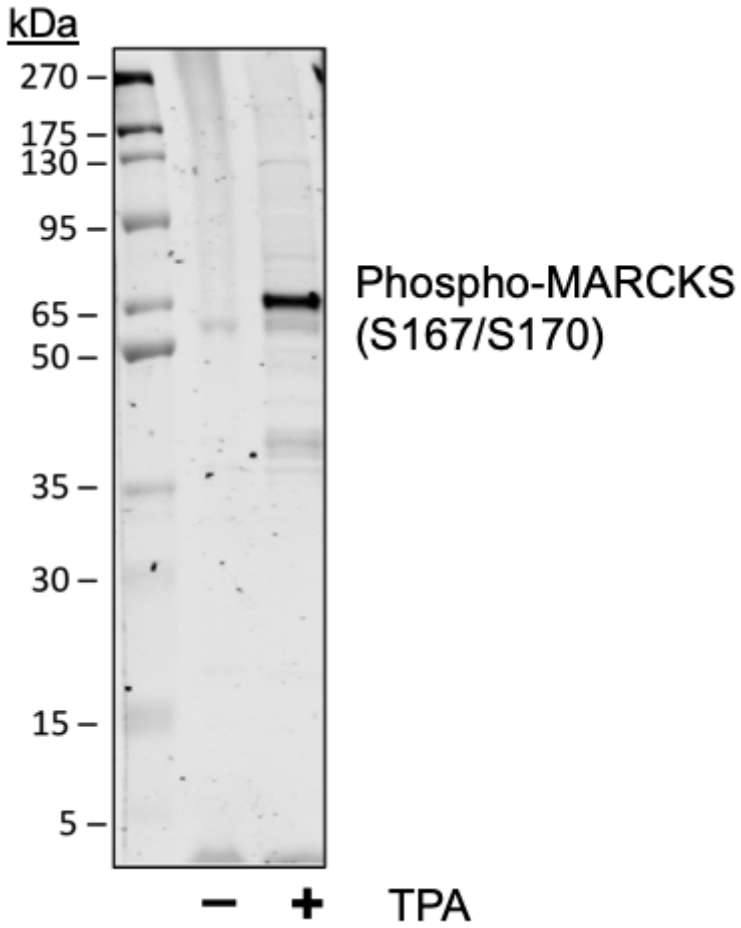
Description: MARCKS (myristoylated alanine-rich C kinase substrate) is a major PKC substrate expressed in all eukaryotic cells(1,2). It binds to and cross-links actin filaments to serve as a bridge between Ca2+/calmodulin and PKC signaling and attenuates phosphatidylinositol 4,5-bisphosphate plasma membrane 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:

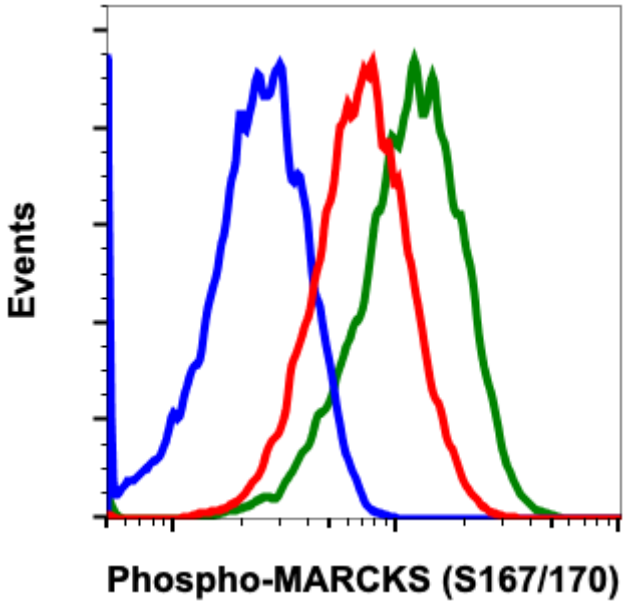
1. El Amri M et al., (2018) J Biomed Sci 25(1):43. doi: 10.1186/s12929-018-0445-
2. Aderem A. (1992) Cell 71:713-6.
3. Hartwig JH, et al., (1992) Nature 356:618-22.
4. Bhat NR. et al., (1991) J Neurisci Res 30: 447-54



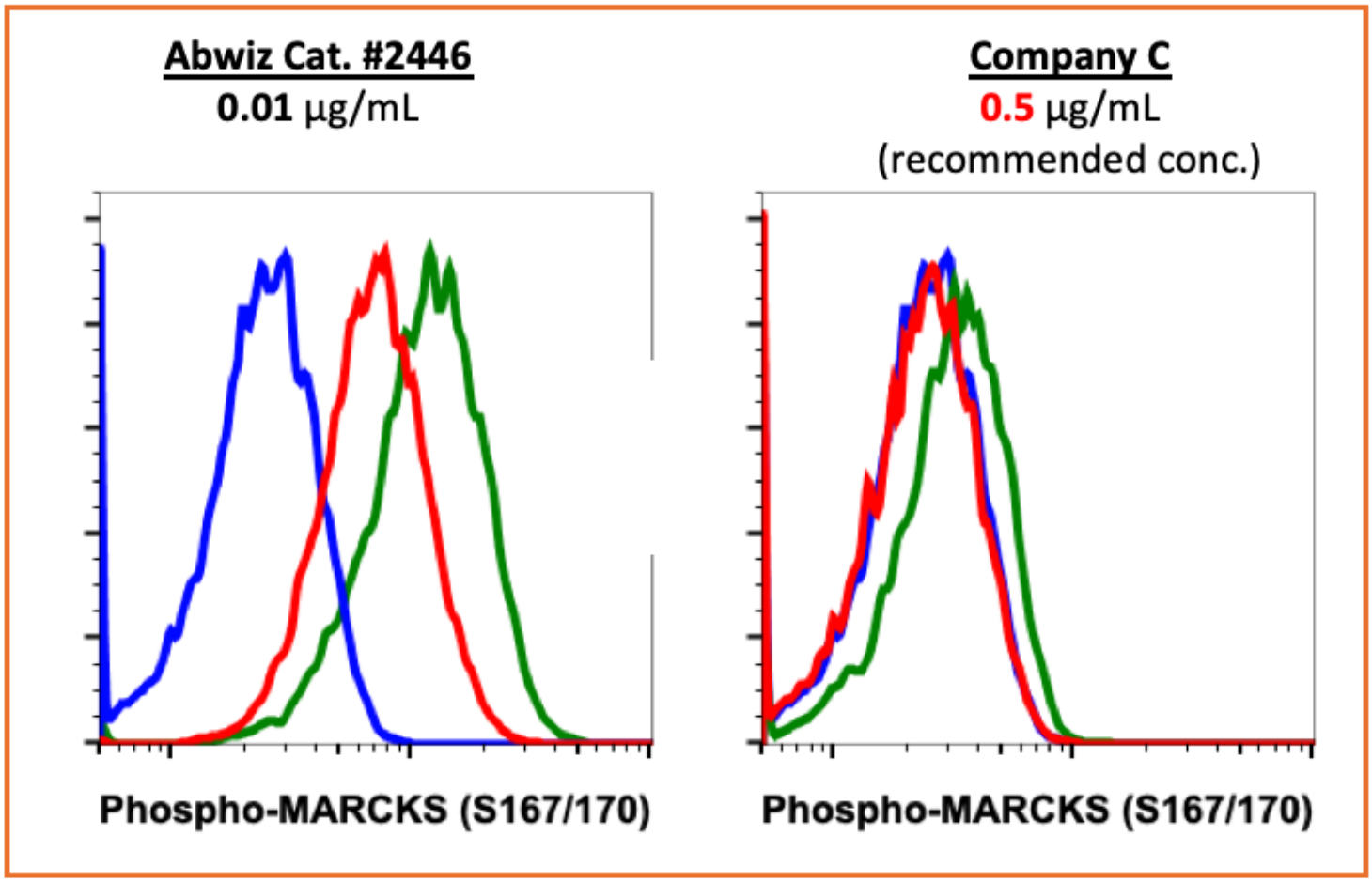
Flow cytometric analysis of C6 cells, secondary antibody only negative control (blue) or treated with staurosporine (red) or with UV+TPA (green) using Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 at 0.01 µg/mL. Cat. #2446.



Western blot analysis of NIH3T3 cell extract untreated or treated with TPA using Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 at 0.1 ug/mL. Cat. #2446.



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. Cat. #2446.



Flow cytometric analysis of 293T cells secondary antibody only negative control (blue) or untreated (red) or treated with UV+TPA (green) using 0.1 ug/mL of Phospho-MARCKS (Ser167/170) antibody MARCKSS167170-C9 at 0.01 µg/mL (Cat. #2446) or Company C antibody at 0.5 ug/mL (manufacturer's recommended concentration).