

Calmodulin (Phospho-T80/S82) Polyclonal Antibody

Catalog: BS66189

Host: Rabbit

Reactivity: Human, Mouse, Rat,

BackGround:

Calmodulin is a ubiquitously expressed small protein mediating many cellular effects such as short-term and long-term memory, nerve growth, inflammation, apoptosis, muscle contraction and intracellular movement. Upon binding of four Ca^{2+} ions, calmodulin undergoes conformational changes, allowing this complex to bind to and activate many enzymes including protein kinases, protein phosphatases, ion channels, Ca^{2+} pumps, nitric oxide synthase, inositol triphosphate kinase, and cyclic nucleotide phosphodiesterase. Since calmodulin binds Ca^{2+} in a cooperative fashion, small changes in cytosolic Ca^{2+} levels lead to large changes in the level of active calmodulin and its target proteins.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 17 kDa

Swiss-Prot:

P62158

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500-1:1000

IF/ICC: 1:100-1:500

IHC: 1:100-1:200

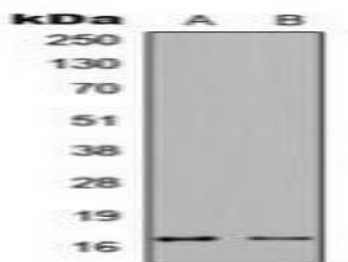
Storage&Stability:

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

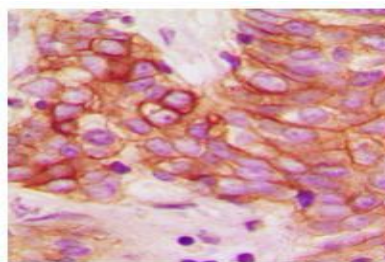
Specificity:

Recognizes endogenous levels of Calmodulin protein only when phosphorylated at T80/S82.

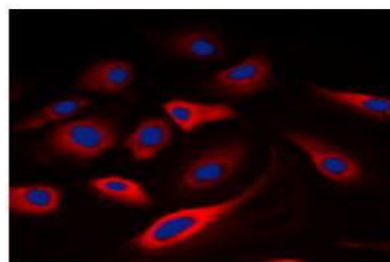
DATA:



Western blot analysis of Calmodulin (Phospho-T80/S82) expression in MCF7 TNF-treated (A), NIH3T3 TNF-treated (B) whole cell lysates.



Immunohistochemical analysis of Calmodulin (Phospho-T80/S82) staining in human breast cancer formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of Calmodulin (Phospho-T80/S82) staining in A549 cells.

Note:

For research use only, not for use in diagnostic procedure.

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