

Caldesmon (Phospho-Ser789) Antibody

Catalog No: #12012



Package Size: #12012-1 50ul #12012-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

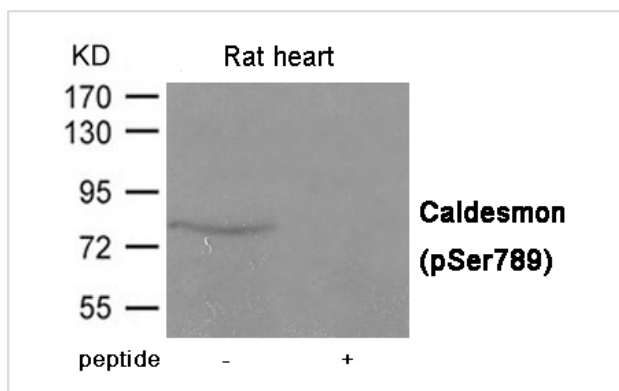
Product Name	Caldesmon (Phospho-Ser789) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Caldesmon only when phosphorylated at Serine 789.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 789 (V-T-S(p)-P-T) derived from Human Caldesmon.
Target Name	Caldesmon
Modification	Phospho
Other Names	CDM, HCAD, LCAD, H-CAD, L-CAD
Accession No.	Swiss-Prot#: Q05682; NCBI Gene#: 800; NCBI Protein#: NP_004333.1
SDS-PAGE MW	80kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Predicted MW: 80kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from Rat heart tissue using Caldesmon (Phospho-Ser789) Antibody #12012. The lane on the right is treated with the antigen-specific peptide.

Background

Actin- and myosin-binding protein implicated in the regulation of actomyosin interactions in smooth muscle and nonmuscle cells (could act as a bridge between myosin and actin filaments). Stimulates actin binding of tropomyosin which increases the stabilization of actin filament structure. In muscle tissues, inhibits the actomyosin ATPase by binding to F-actin. This inhibition is attenuated by calcium-calmodulin and is potentiated by tropomyosin. Interacts with actin, myosin, two molecules of tropomyosin and with calmodulin. Also play an essential role during cellular mitosis and receptor capping. Involved in Schwann cell migration during peripheral nerve regeneration

Note: This product is for in vitro research use only and is not intended for use in humans or animals.