PKC zeta (Phospho-Thr560) Antibody

Catalog No: #11958

Package Size: #11958-1 50ul #11958-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

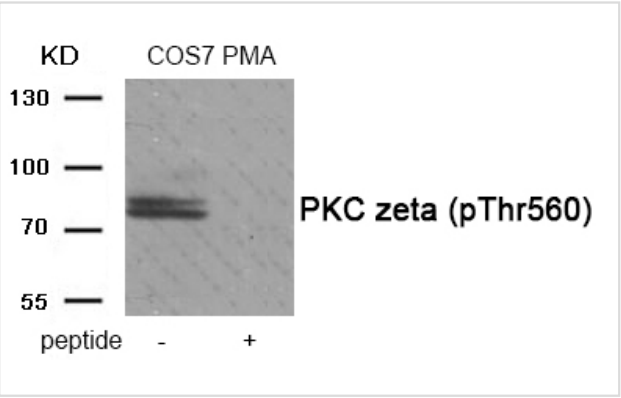
Description

Product Name	PKC zeta (Phospho-Thr560) 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 chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of PKC zeta only when phosphorylated at threonine 560.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phospho rylation site of threonine560(Q-L-T(p)-P-D) derived from Human PKC zeta .
Target Name	PKC zeta
Modification	Phospho
Other Names	KPCZ; PKC-zeta; PKC2; PRKCZ; nPKC-zeta
Accession No.	Swiss-Prot#: Q05513; NCBI Gene#: 5590; NCBI Protein#: NP_001028753.1
Uniprot	Q05513
GeneID	5590;
SDS-PAGE MW	80kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from COS7 cells treated with PMA using Phospho-PKC zeta (Thr560) antibody #11958.The lane on the right is treated with the antigen-specific peptide.

Background

This is a calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. Essential for T-cell receptor (TCR)-mediated T-cell activation, but is dispensable during TCR-dependent thymocyte development. Links the TCR signaling complex to the activation of NF-kappa-B in mature T lymphocytes. Required for interleukin-2 (IL2) production. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.

Nakayama M, et al. (2013)Nat Cell Biol 15, 249-60. Mayanglambam A, Bhavanasi D, Vijayan KV, Kunapuli SP (2011)Biochem Pharmacol 82, 505-13. Dettori R, et al. (2009)J Biol Chem 284, 30318-27.

Note: This product is for in vitro research use only