

## Anti-Phospho-PKC Gamma/PRKCG (T514) Antibody

Catalog Number: P01890

### About PRKCG

The gamma isotype of protein kinase C (PKC gamma) is a member of the classical PKC (cPKC) subfamily which is activated by Ca(2+) and diacylglycerol in the presence of phosphatidylserine. Physiologically, PKC gamma is activated by a mechanism coupled with receptor-mediated breakdown of inositol phospholipid as other cPKC isotypes such as PKC alpha and PKC beta. PKC gamma is expressed solely in the brain and spinal cord and its localization is restricted to neurons, while PKC alpha and PKC beta are expressed in many tissues in addition to the brain. Within the brain, PKC gamma is the most abundant in the cerebellum, hippocampus and cerebral cortex, where the existence of neuronal plasticity has been demonstrated. PKC gamma gene is mutated in spinocerebellar ataxia type 14 (SCA14). Verbeek et al. (2005) point out the specific alterations in mutant PKC gamma function that could lead to the selective neuronal degeneration of SCA14.

### Overview

Product Name	Anti-Phospho-PKC Gamma/PRKCG (T514) Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-Phospho-PKC Gamma/PRKCG (T514) Antibody catalog # P01890. Tested in WB, ICC, IF applications. This antibody reacts with Human, Rat.
Application	IF, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P05129

### Technical Details

Immunogen	A synthesized peptide derived from human PKC gamma around the phosphorylation site of Thr514.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.

Suggested Dilutions

Western blot, 1:500-2000  
Immunocytochemistry/Immunofluorescence, 1:50-400

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