

Product datasheet for AP20281PU-M

Phospholipase C beta 3 (PLCB3) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies IHC, WB **Applications:** Recommended Dilution: Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200. **Reactivity:** Human, Mouse, Rat Host: Rabbit **Clonality:** Polyclonal Specificity: This antibody detects endogenous levels of PLC β3 protein. Formulation: Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction **Concentration:** 1.0 mg/ml **Purification:** Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE) **Conjugation:** Unconjugated Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. **Predicted Protein Size:** ~ 150 kDa Gene Name: phospholipase C beta 3 Database Link: Entrez Gene 18797 MouseEntrez Gene 29322 RatEntrez Gene 5331 Human Q01970



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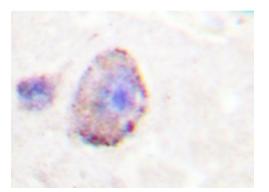
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	Phospholipase C beta 3 (PLCB3) Rabbit Polyclonal Antibody – AP20281PU-M
Background:	Phosphoinositide-specific phospholipase C (PLC) plays a critical role in the initiation of receptor mediated signal transduction through the generation of the two second messengers, inositol 1, 4, 5-triphosphate and diacylglycerol from phosphatidylinositol 4, 5 bisphosphate. A total of eight mammalian PLC isozymes have been described (PLC β 1, PLC β 2, PLC β 3, PLC β 4, PLC γ 1, PLC γ 2, PLC δ 1 and PLC δ 2) with molecular weights ranging from 85 to 150 kDa. The y-type enzymes are unique in that they contain SH2 and SH3 domains. Moreover, the two y-type enzymes, but not the β and δ isozymes, are subject to activation by a number of protein tyrosine kinases which associate with their SH2 domains and induce their activation by phosphoryation. In contrast, activation of PLC β 1, PLC β 2 and PLC β 3 is mediated by the α subunits of the Gq class of heterotrimeric G proteins and by certain β y G protein subunits. The regulatory mechanisms for PLC δ 1 and PLC δ 2 are as yet not resolved.
Synonyms:	PLC-beta-3, Phospholipase C-beta-3
Protein Families:	Druggable Genome
Protein Pathway	Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway

Product images:

PLC β3- **–** ⁻¹⁷⁵ -83 -62

Western blot analysis of PLC β3 antibody ([AP20281PU-N]) in extracts from HeLa cells.



Immunohistochemistry analyzes of PLC β3 antibody ([AP20281PU-N]) in paraffin-embedded human brain tissue.

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