

Anti-Phospho-PRKCZ (Thr560) Antibody (2L99)

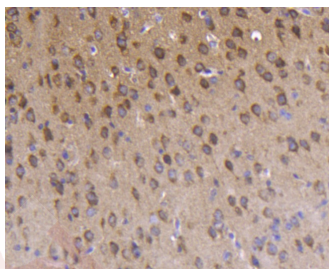
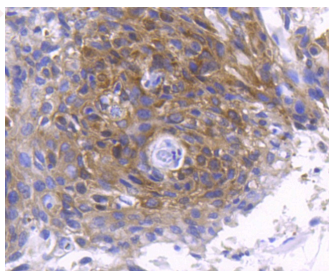
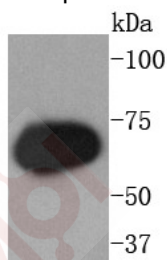
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 68 kDa.
Clone:	2L99
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Phospho-PKC zeta (T560) on mouse eyeball lysates using anti-Phospho-PKC zeta (T560) antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Phospho-PKC zeta (T560) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Phospho-PKC zeta (T560) antibody. Counter stained with hematoxylin.



Application:	IHC,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human PKC zeta around the phosphorylation site of Thr560

Antigen Species: Human

Uniprot ID: Q05513

Synonyms: KPCZ_HUMAN;nPKC-zeta;r14-3-3;C80388;R74924;aPKCzeta;AI098070;nPKC zeta;p-PRKCZ (T560);PRKCZ (p-Thr560);PKM-zeta;OTTHUMP0000001368;14-3-3-zetaisoform; OTTHUMP00000044160;EC 2.7.11.13;Pkc;PKC2;PRKCZ (p-T560);PRKCZ;p-PRKCZ (Thr560); PKCZETA;Phospho-PRKCZ (T560);zetaPKC;PKC ZETA;PKC 2;Protein kinase C zeta

Research Background

Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions including cell growth and differentiation, gene expression, hormone secretion and membrane function. PKCs were originally identified as serine/threonine protein kinases whose activity was dependent on calcium and phospholipids.

Diacylglycerols (DAG) and tumor promoting phorbol esters bind to and activate PKC. PKCs can be subdivided into many different isoforms (α , β I, β II, γ , δ , ϵ , ω , η , θ , λ , ι , ζ and ν). Patterns of expression for each PKC isoform differ among tissues and PKC family members exhibit clear differences in their cofactor dependencies. For instance, the kinase activities of PKC δ and ϵ are independent of Ca^{++} . On the other hand, most of the other PKC members possess phorbol ester-binding activities and kinase activities.

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