

Human PKCζ Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6666X

100 µg

| DESCRIPTION | |
|--------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human PKCζ in Western blots. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | E. coli-derived recombinant human PKCζ Ile454-Val592 Accession # Q05513 |
| Conjugate | Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet |
| , | (SDS) for additional information and handling instructions. |

| APPLICATIONS | | |
|---|---|--|
| Please Note: Optimal dilutions should be determined by each | a laboratory for each application. General Protocols are available in the Technical Information section on our website. | |
| Knockout Validated | Optimal dilution of this antibody should be experimentally determined. | |
| Western Blot | Ontingal dilution of this autibody about the averaging antally detarmined | |

| PREPARATION AND S | PREPARATION AND STORAGE | |
|---------------------|---|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. | |
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied | |

BACKGROUND

PKCζ (protein kinase C-zeta, EC=2.7.11.13), also called PKC2, is a 592 amino acid (aa), 79 kDa member of the atypical PKC (aPKC) subfamily of Ser/Thr protein kinases. aPKC proteins can be activated by phorbol esters, but are insensitive to calcium and diacylglycerol. PKCζ regulates cell polarity in early development, and is necessary for cytokine-induced chemotaxis of macrophages and cancer cells, chemokine-induced adhesion of neutrophils, and polarization of Th2 cells. It is activated by PDK1 phosphorylation, binds ceramide, and translocates to the plasma membrane where it regulates adherens and tight junction formation. PKCζ contains an OPR domain (aa 15-98), a zinc finger region (aa 130-180), and a protein kinase domain (aa 252-518). PKCζ potential variants of 409 or 539 aa have alternate start sites at aa 184 or aa 9 (also missing aa 186-233), respectively. Within the region used as an immunogen, human PKCζ shares 98% aa identity with mouse and rat PKCζ.

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