

Datasheet for ABIN3032235

anti-PKC beta antibody (AA 642-673)**3** Images**1** Publication[Go to Product page](#)

Overview

| | |
|----------------------|--|
| Quantity: | 0.4 mL |
| Target: | PKC beta (PRKCB) |
| Binding Specificity: | AA 642-673 |
| Reactivity: | Human, Rat, Mouse, Primate |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PKC beta antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC) |

Product Details

| | |
|---------------|---|
| Immunogen: | A portion of amino acids 642-673 from the human protein was used as the immunogen for this PKC beta 2 antibody. |
| Isotype: | Ig Fraction |
| Purification: | Purified |

Target Details

| | |
|-------------------|--|
| Target: | PKC beta (PRKCB) |
| Alternative Name: | PKC beta 2 (PRKCB Products) |
| Background: | Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular |

Target Details

signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. PKC beta is one of the PKC family members. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported. Isoform 1 uses an alternate exon at the 3' end compared to isoform 2, which includes a part of the coding region. The resulting isoform 1 has a distinct and shorter C-terminus, as compared to isoform 2.

Pathways: [WNT Signaling](#), [TCR Signaling](#), [Thyroid Hormone Synthesis](#), [Nuclear Hormone Receptor Binding](#), [Chromatin Binding](#), [Myometrial Relaxation and Contraction](#), [VEGF Signaling](#), [Unfolded Protein Response](#), [BCR Signaling](#)

Application Details

Application Notes: Titration of the PKC beta 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the PKC beta 2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Kuai, Luo, Qu, Ru, Luo, Ding, Xing, Liu, Sun, Li, Li: "Transcriptomic Analysis of the Mechanisms for Alleviating Psoriatic Dermatitis Using Taodan Granules in an Imiquimod-Induced Psoriasis-

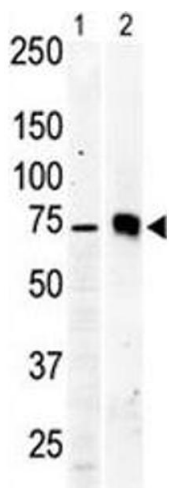
like Mouse Model." in: **Frontiers in pharmacology**, Vol. 12, pp. 632414, (2021) ([PubMed](#)).

Images



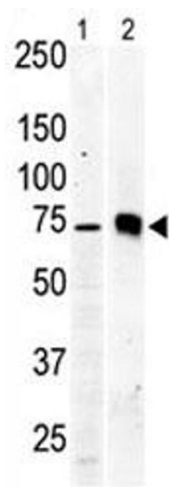
Immunohistochemistry

Image 1. IHC analysis of FFPE human brain tissue stained with PKC beta 2 antibody



Western Blotting

Image 2. Western blot testing of PKC beta 2 antibody and Jurkat cell lysate (lane 1) and mouse brain tissue lysate (2).



Western Blotting

Image 3. Western blot testing of PKC beta 2 antibody and Jurkat cell lysate (lane 1) and mouse brain tissue lysate (2).