

Anti-Phospho-PKC delta (Y311) Antibody [JE44-20] HA722458



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 78 kDa
Clone number:	JE44-20

Description:	Calcium-independent, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase that plays contrasting roles in cell death and cell survival by functioning as a pro-apoptotic protein during DNA damage-induced apoptosis, but acting as an anti-apoptotic protein during cytokine receptor-initiated cell death, is involved in tumor suppression as well as survival of several cancers, is required for oxygen radical production by NADPH oxidase and acts as positive or negative regulator in platelet functional responses. Negatively regulates B cell proliferation and also has an important function in self-antigen induced B cell tolerance induction (By similarity). Upon DNA damage, activates the promoter of the death-promoting transcription factor BCLAF1/Bfl to trigger BCLAF1-mediated p53/TP53 gene transcription and apoptosis. In response to oxidative stress, interact with and activate CHUK/IKKA in the nucleus, causing the phosphorylation of p53/TP53. In the case of ER stress or DNA damage-induced apoptosis, can form a complex with the tyrosine-protein kinase ABL1 which trigger apoptosis independently of p53/TP53.
Immunogen:	Synthetic phosphopeptide corresponding to residues surrounding Tyr311 of human PKC delta.
Positive control:	THP-1 cell lysate, THP-1 treated with 50ng/mL PMA for 72 hours cell lysate, THP-1 treated with 100ng/mL PMA for 72 hours cell lysate, mouse small intestine tissue lysate, rat lung tissue lysate.
Subcellular location:	Cell membrane. Cytoplasm. Membrane. Mitochondrion. Nucleus.
Database links:	SwissProt: Q05655 Human P28867 Mouse P09215 Rat
Recommended Dilutions:	
WB	1:1,000
Storage Buffer:	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物
HUABIO
www.huabio.cn

Images

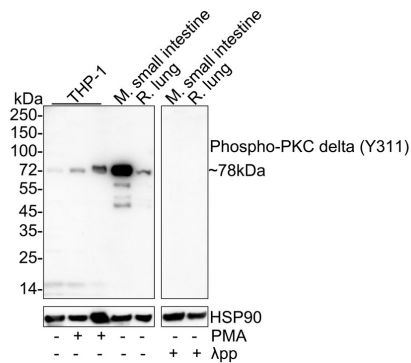


Fig1: Western blot analysis of Phospho-PKC delta (Y311) on different lysates with Rabbit anti-Phospho-PKC delta (Y311) antibody (HA722458) at 1/1,000 dilution.

Lane 1: THP-1 cell lysate (20 µg/Lane)

Lane 2: THP-1 treated with 50ng/mL PMA for 72 hours cell lysate (20 µg/Lane)

Lane 3: THP-1 treated with 100ng/mL PMA for 72 hours cell lysate (20 µg/Lane)

Lane 4: Mouse small intestine tissue lysate (40 µg/Lane)

Lane 5: Rat lung tissue lysate (40 µg/Lane)

Lane 6: Mouse small intestine tissue lysate, the membrane treated with λpp for 1 hour (40 µg/Lane)

Lane 7: Rat lung tissue lysate, the membrane treated with λpp for 1 hour (40 µg/Lane)

Predicted band size: 78 kDa

Observed band size: 78 kDa

Exposure time: 1 minute 50 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA722458) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Duquesnes N., Lezoualc'h F., Crozatier B. PKC-delta and PKC-epsilon: Foes of the same family or strangers? *J. Mol. Cell. Cardiol.* 51:665-673 (2011)
2. Rigbolt K.T., Prokhorova T.A., Akimov V., Henningsen J., Johansen P.T., Kratchmarova I., Kassem M., Mann M., Olsen J.V., Blagoev B. System-wide temporal characterization of the proteome and phosphoproteome of human embryonic stem cell differentiation. *Sci. Signal.* 4:RS3-RS3 (2011)

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn