Datasheet

Anti-Protein Kinase C α Clone 133

Product Name	Anti Human Protein Kinase C α 133
Catalogue Number	133
Clone, Isotype	Clone 133, IgG2a
Format	IgG
Tested Applications	IHC, WB

Description:
Protein Kinase C alpha (PKCα) is involved in the regulation of cell proliferation during cell cycle progression. Clone 133 recognizes the α isoform of PKCα and binds to a sequence at the C terminus of PKCα to detect its expression in vitro.

Product Details:

Form in stock: IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

Host: Mouse

Specificity: Recognizes sequence PQFVHPILQSAV at the C terminus at PKCα.

Fusion partner: Spleen cells from immunised mice were fused with cells of the mouse SP2/0 myeloma cell line.

Storage: Store at +4°C or -20°C. Avoid repeated freezing and thawing.

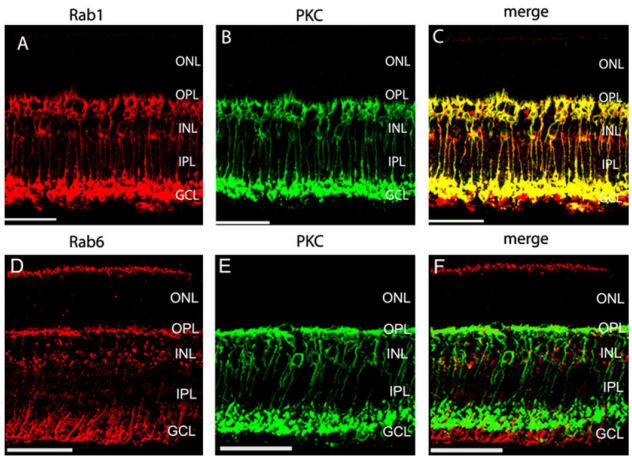
Shelf life: 18 months from date of dispatch.

Regulatory/ Restrictions: For research and commercial purposes.

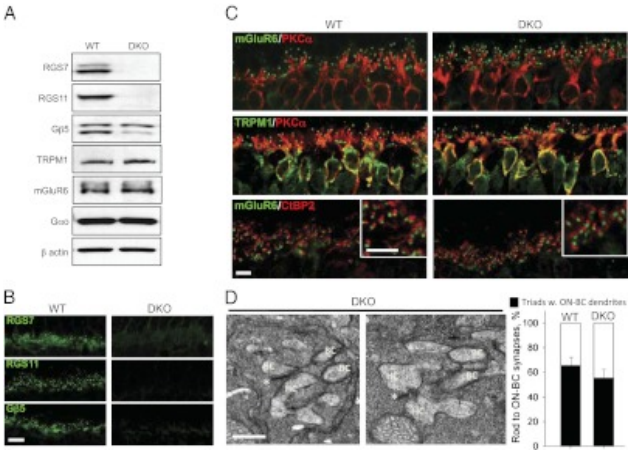
Applications	Suggested Dilution
Western Blot	1:10-1:500
Immunohistochemistry – Paraffin/ Frozen	1:10

The Innovation Centre, 217 Portobello, Sheffield, S1 4DP
Tel: +44(0)114 224 2235 Email: info@bioservuk.com

Applications:



Clone 133 used to detect Rab1 expression in mouse retina using **IHC-P**
Image caption: Immunostains of Rab1 (**A–C**) and Rab6 (**D–F**) with PKC in the inner mouse retinas. The transverse sections taken from mouse retinas were double stained with antibodies against Rab1 (**A–C**) or Rab6 (**D–F**) with PKC, a rod bipolar cell marker. Rab1 colocalized with PKC, while Rab6 did not. Red, Rab staining; green, PKC staining; yellow, colocalization of Rab with PKC. (Huang, W et al.)
Dilution used: 1:75



Clone 133 used to detect PKCα expression in mouse retina by **IHC**
Image caption: ... *C*) Normal morphology, dendritic branching, and accumulation of mGluR6 and TRPM1 at the dendritic tips of the ON-BC in DKO retinas. Only bipolar cells and outer plexiform layer are shown... (Cao, Y et al.)

References:

1. Huang, W., Wu, G., Wang, G-Y. (2009) Cell type-specific and light-dependent expression of Rab1 and Rab6 GTPases in mammalian retinas. *Visual Neuroscience, 26(5-6), 443–452.*
2. Donovan, A.J., Lansu, K., Williams, J.G., Denning, M.F., Gentile, S. (2012) LQT2 Mutation on Kv11.1 Disrupts a PKCα Site. *Molecular Pharmacology, 82 (3) 428-437.*
3. Cao, Y., Pahlberg, J., Sarria, I., Kamasawa, N., Sampath, A.P., Martemyanov, K.A. (2012) Regulators of G protein signaling RGS7 and RGS11 determine the onset of the light response in ON bipolar neurons. *Proceedings of the National Academy of Sciences of the United States of America, 109(20), 7905–7910.*
4. Campo, G.M., Avenoso, A., Micali, A., Nastasi, G., Squadrito, F., Altavilla, D., Bitto, A., Polito, F., Rinaldi, M.G., Calatroni, A., D'Ascola, A., Campo, S. (2010) High-molecular weight hyaluronan reduced renal PKC activation in genetically diabetic mice. *Biochimica et Biophysica Acta (BBA)- Molecular Basis of Disease, Volume 1802, Issue 11, Pages 1118-1130, ISSN 0925-4439.* **WB, Dilution used 1:1000**

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