

## Datasheet

### Anti-Protein Kinase C $\alpha$ Clone 133

|                     |  |
|---------------------|--|
| Product Name        | Anti Human Protein Kinase C $\alpha$ 133 |
| Catalogue Number    | 133                                      |
| Clone, Isotype      | Clone 133, IgG2a                         |
| Format              | IgG                                      |
| Tested Applications | IHC, WB                                  |

#### **Description:**

Protein Kinase C alpha (PKC $\alpha$ ) is involved in the regulation of cell proliferation during cell cycle progression. Clone 133 recognizes the  $\alpha$  isoform of PKC $\alpha$  and binds to a sequence at the C terminus of PKC $\alpha$  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 PKC $\alpha$ .

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

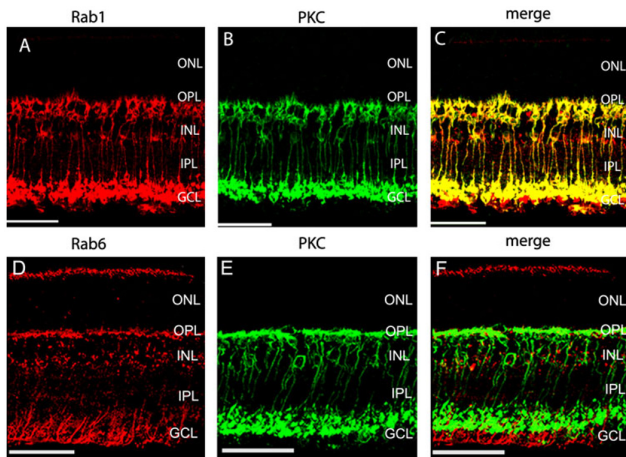
**Storage:** Store at +4°C or -20°C. Avoid repeated freezing and thawing.

**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               |

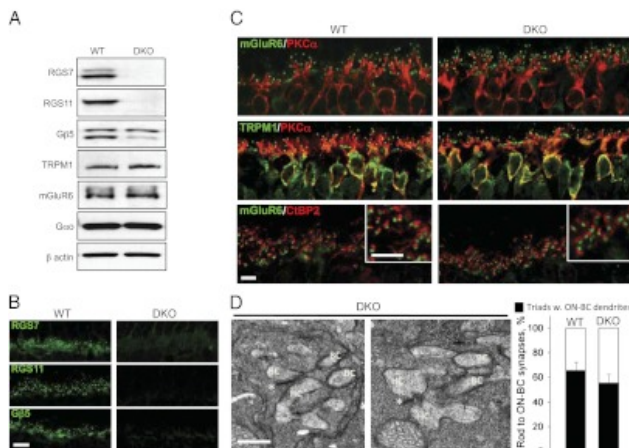
## Applications:



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 PKC $\alpha$  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:

- 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.
- Donovan, A.J., Lansu, K., Williams, J.G., Denning, M.F., Gentile, S. (2012) LQT2 Mutation on Kv11.1 Disrupts a PKC $\alpha$  Site. *Molecular Pharmacology*, 82 (3) 428-437.
- 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.
- 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**