

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PP2Cβ in Western blots. In Western blots, this antibody does not cross-react with recombinant human PP2Cα or PP2Cδ.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PP2Cβ Met1-Gly378 Accession # O75688
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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 laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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

Protein phosphatase 2C beta (PP2Cβ), also called protein phosphatase, magnesium-dependent type 1B (PPM1B), preferentially dephosphorylates serine and threonine residues on proteins. There are five splice variants with sizes of 53, 43, 42, 36, and 21 kDa. This enzyme is resistant to inhibitors of other protein phosphatases such as okadaic acid and calyculin. Association of PP2Cβ with IκB kinase inhibits its phosphorylating activity and is regulated by TNFα stimulation. PP2Cβ is found in many cell types and tissues, especially muscle. The mRNA for PP2Cβ accumulates in mature spermatocytes and metaphase-arrested, unfertilized oocytes. Knockout of PP2Cβ in mice is lethal prior to embryo implantation.

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