

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PI 3-Kinase C2β in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PI 3-Kinase C2β Ser2-Ser134 Accession # O00750
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Immunocytochemistry	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

PIK3C2β (Phosphatidylinositol-4-phosphate 3 kinase C2 domain-containing beta subunit; also HsC2-PI3K) is a 175-185 kDa member of the Class II PI3/PI4 kinase family of enzymes. It is widely expressed, being found in neurons, urinary transitional and columnar epithelium, and fibroblasts. PIK3C2β likely participates in growth factor, integrin and chemokine signaling by interacting with select cell membrane receptors, and appears to phosphorylate both phosphatidylinositol (PI) and PI 4-monophosphate upon activation. Human PIK3C2β is 1634 amino acids (aa) in length. It contains an N-terminal Pro-rich region (aa 156-174), two PI3K Class II domains (aa 622-794 and 1505-1627), a PI3K catalytic region (aa 987-1340), one PX domain (aa 1365-1481) and an NLS (aa 1555-1565). There are two potential C2β isoform variants. One shows a deletion of aa 850-877, while another contains a three aa insertion after Gln1016. Over aa 2-134, human PIK3C2β shares 91% aa identity with mouse PIK3C2β.

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