

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human PI 3-Kinase p85 $\beta$ in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) PI 3-Kinase p85 $\beta$ (aa 325-428), rhPI 3-Kinase p85 $\alpha$ , rhPI 3-Kinase p87, rhPIK3R4, or rhPIK3R5 is observed.                          |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 572001                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human PI 3-Kinase p85 $\beta$<br>Lys516-Gly642<br>Accession # O00459                                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Phosphoinositide 3-kinase p85 beta subunit (PI 3-Kinase p85 $\beta$ ), also called regulatory subunit 2 (PIK3-R2) is an 85 kDa, 728 amino acid (aa) regulatory subunit of the PI3K complex. It shares ubiquitous expression and overlapping function with the p85 alpha subunit, but the two are differentially phosphorylated and may have different effects on apoptosis. Within aa 516-642, human p85 $\beta$  shares 97%, 96% and 68% aa identity with mouse and rat p85 $\beta$  and human p85 $\alpha$ , respectively. Full-length human p85 $\alpha$  and p85 $\beta$  share 59% aa identity.

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