Anti-p-PLCγ2 [pY759] -162Dy

Catalog #: 3162018A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Cross Reactivity: Human, Predicted

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

Description

A major signaling mediator downstream of receptor tyrosine kinase (RTK) pathways is phospholipase C (PLC), a family of cytoplasmic proteins that cleave phospholipids to activate the subsequent signal transduction pathways. Upon activation by RTKs or G protein-coupled receptors (GPCRs), PLC cleaves the phospholipid phosphatidylinositol 4,5-bisphosphate (PIP2) into diacyl glycerol (DAG) and inositol 1,4,5-trisphosphate (IP3), which activates the calcium-dependent protein kinase C (PKC) and Ca^2+ release from the endoplasmic reticulum (ER) to the cytoplasm. PKC and calcium spike in turn activate downstream effectors to mediate various cellular changes and activities. A total of 13 different PLC family members, divided into six classes, have been identified in humans, including β, γ, δ, ε, η, and ζ, and each has a specific tissue distribution. PLC-γ has two isoforms, PLC-γ1 and PLC-γ2. PLC-γ1 is expressed ubiquitously and has an essential role in growth and development, while PLC-γ2 is expressed mainly in hematopoietic cells and plays an essential role in B cell development and function.

References


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