Anti-Phospho-SHP-2-141Pr

Catalog: 3141002A
Clone: D66F10
Package Size: 50 tests
Isotype: IgG
Storage: Store product at 4°C. Do not freeze.
Formulation: Antibody stabilizer with 0.05% Sodium Azide
Reactivity: Rat, Mouse, Human,

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

SHP-2, also known as PTPN11, is a widely expressed non-receptor protein tyrosine phosphatase and adapter protein. SHP-2 participates in diverse signaling cascades, including JAK-STAT, and PI3K/Akt pathways, and most prominently the Ras/MAPK pathway. SHP-2 is activated by phosphorylation at Tyr542 and Tyr580 downstream of growth factor binding, such as FGF and PDGF. Unlike most phosphatases, activated SHP-2 promotes, rather than inhibits, downstream intracellular signaling. The exact mechanism of this functionality remains unclear. Mutations in SHP-2 are associated with excessive Ras/MAPK pathway activation in several hematopoietic malignancies, including Noonan syndrome and juvenile myelomonocytic leukemia.

References


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