

Anti-Phospho-PTPN11 (Tyr542) Antibody (1U332)

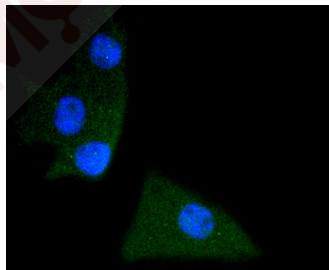
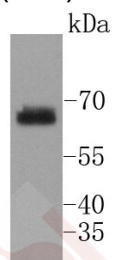
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 68 kDa.
Clone:	1U332
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of phospho-SHP2 (Y542) on NIH/3T3 lysates using anti-phospho-SHP2 (Y542) antibody at 1/1,000 dilution.
2. ICC staining phospho-SHP2 (Y542) in B-6F1 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Application:	ICC,IP,WB
Recommended	WB: 1:1000; ICC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human SHP2 around the phosphorylation site of Tyr542
Antigen Species: Human
Uniprot ID: Q06124
Synonyms: PTPN11 (p-Tyr542);PTPN11 (p-Y542);p-PTPN11 (Tyr542);p-PTPN11 (Y542)

Research Background

The steady state of protein tyrosyl phosphorylation in cells is regulated by the opposing action of tyrosine kinases and protein tyrosine phosphatases (PTPs). Several groups have independently identified a non-transmembrane PTP, designated SH-PTP1 (also known as PTP1C, HCP and SHP), which is primarily expressed in hematopoietic cells and characterized by the presence of two SH2 domains N-terminal to the PTP domain. SH2 domains generally mediate the association of regulatory molecules with specific phosphotyrosine-containing sites on autophosphorylated receptors, thereby controlling the initial interaction of receptors with these substrates. A second and much more widely expressed PTP with SH2 domains, SH-PTP2 (also designated PTP1D and Syp), has been identified. Strong sequence similarity between SH-PTP2 and the Drosophila gene corkscrew (CSW) and their similar patterns of expression suggest that SH-PTP2 is the human corkscrew homolog.

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