

N-WASP (Tyr-256), phospho-specific

Cat. # WP2601
Host Rabbit Polyclonal
Size 100 µl

Background:

Members of the Wiskott-Aldrich syndrome protein (WASP) family regulate the formation of actin-based cell structures in many cell types. These proteins contain C-terminal actin-binding domains that can stimulate actin polymerization. WASP is expressed primarily in hematopoietic cells, while its homolog N-WASP is widely expressed. These proteins have 48% identity in human with higher homology in the functional regions of these proteins. Phosphorylation at serine and tyrosine residues regulates the activity of both proteins. WASP is tyrosine phosphorylated at tyrosine 291 after antigen receptor activation in B-cells and collagen stimulation of platelets. Phosphorylation of the analogous site in N-WASP (Tyr-256) stimulates its activity, reduces nuclear N-WASP, and is required for neurite extension.

References

- Baba, Y. et al. (1999) *Blood* 93:2003.
 Torres, E. & Rosen, M.K. (2003) *Mol Cell* 11:1215.
 Wu, X. et al. (2004) *J Biol Chem* 279(10):9565.
 Pichot, C.S. et al. (2009) *British J. Cancer* 1 –10. (WB: Breast Cancer Cell lines)

Immunogen:

Phospho-N-WASP (Tyr-256) synthetic peptide (coupled to BSA) corresponding to amino acid residues around tyrosine 256 of human N-WASP. The human WASP sequence has a two amino acid difference in the same region surrounding tyrosine 291.

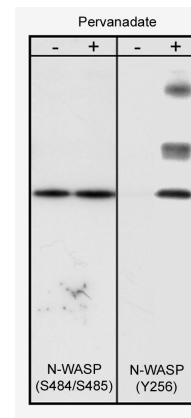
Applications:

WB 1:10,000
 ELISA 1:20,000

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

Related Products:

WP2401 unphosphorylated N-WASP (Ser-484/Ser-485) Rabbit Polyclonal
 WP2201 N-WASP (Ser-484/Ser-485), phospho-specific Rabbit Polyclonal
 WP2001 N-WASP Rabbit Polyclonal
 WP2101 WASP / N-WASP Rabbit Polyclonal
 WX2605 phospho-N-WASP (Tyr-256) Peptide



Western blot analysis of control and pervanadate-treated A431 cells (20 µg/lane). Blots were probed with either rabbit polyclonal anti-N-WASP (Ser-484/Ser-485) or anti-N-WASP (Tyr-256).

Buffer and Storage:

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Specificity:

This antibody was cross-adsorbed to phosphotyrosine then affinity purified using phospho-N-WASP (Tyr-256) peptide (without carrier). The antibody detects a 65 kDa* protein corresponding to the molecular mass of phosphorylated N-WASP on SDS-PAGE immunoblots of A431 cells treated with pervanadate. A similar band is observed in pervanadate treated HeLa and endothelial cells. Weak bands are also observed at higher molecular weights after pervanadate treatment. These bands may be due to low cross-reactivity with phosphotyrosine.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

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