

phospho-N-WASP (Tyr-256) Blocking Peptide

Cat. # **WX2605**
Size **50 µg**

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.

Peptide Sequence:

Phospho-N-WASP (Tyr-256) synthetic peptide corresponds 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.

Buffer and Storage:

Blocking Peptide is supplied in 50µl phosphate-buffered saline and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Applications:

Antibody Blocking 1 µg/ml¹
ELISA 10-100 ng/well²

End user should determine optimal concentration dependent on the concentration of the antibody.

¹Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.

²Established in 96-well Nunc immunoplates where peptide was bound to plates for 2 hrs in 0.1 M sodium carbonate buffer, pH 8.5.

Specificity:

The peptide is specifically recognized by anti-N-WASP (Tyr-256) phospho-specific antibody (WP2601) in ELISA, and has been shown to block the reactivity of WP2601 during Western blot. In addition, the peptide is recommended for use in blocking WP2601 reactivity in immunocytochemistry.

Related Products:

WP2401 unphosphorylated N-WASP (S484/S485) (WASP (S483/S484)) Rabbit Polyclonal
WP2201 N-WASP (S484/S485) (WASP (S483/S484)), phospho-specific Rabbit Polyclonal
WP2601 N-WASP (Tyr-256), phospho-specific Rabbit Polyclonal
WP2101 WASP/N-WASP Rabbit Polyclonal WP2001 N-WASP Rabbit Polyclonal

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