

N-WASP Blocking Peptide

Cat. # **WX2005**

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. In addition, these proteins bind the ARP2/3 complex, which can nucleate actin polymerization at sites that lead to branched actin structures. WASP is expressed primarily in hematopoietic cells, while its homolog N-WASP is widely expressed. These proteins have 48% identity in human with the highest homology in the functional regions of these proteins. Serine and tyrosine phosphorylation regulates the activity of both proteins. WASP is observed as a 63 kDa protein in hematopoietic cells, while N-WASP is observed as a 65 kDa in many tissues, especially brain.

References:

Cory, G.O. et al. (2003) Mol Cell. 11(5):1229-39.

Higgs, H.N. & Pollard, T.D. (2001) Annu Rev Biochem 70:649-676.

Peptide Sequence:

N-WASP synthetic peptide corresponds to amino acid residues in the N-terminal region of human N-WASP. This N-WASP peptide sequence is 100% homologous to rat and mouse N-WASP, and has low homology to the corresponding region in human WASP.

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 antibody (WP2001) in ELISA, and has been shown to block the reactivity of WP2001 during Western blot. In addition, the peptide is recommended for use in blocking WP2001 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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