

# N-WASP

**Blocking Peptide** 

Cat. # WX2005 Size 50 μg

## Background

Members of the Wiskott-Aldrich sydrome 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.

**Background References** 

Baba, Y. et al. (1999) Blood 93:2003. Higgs, H.N. & Pollard, T.D. (2001) Annu Rev Biochem 70:649-676. Cory, G.O. et al. (2003) Mol Cell. 11(5):1229-39.

## Applications

Blocking 1:1000 ELISA 50 ng/well

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 1 hour at room temperature.

## 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.

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

## **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.

### **Related Products**

WP2101 WASP / N-WASP Rabbit Polyclonal
WP2001 N-WASP Rabbit Polyclonal
WP2601 N-WASP (Tyr-256), phospho-specific Rabbit Polyclonal
WP2201 N-WASP (Ser-484/Ser-485), phospho-specific Rabbit Polyclonal
WP2401 unphosphorylated N-WASP (Ser-484/Ser-485) Rabbit Polyclonal

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