

# N-WASP

**Cat. #** WP2001

**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. 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.  
 Pichot, C.S. et al. (2009) *British J. Cancer* 1 –10. (WB: Breast Cancer Cell lines)  
 Hartig, S.M. et al. (2009) *J Cell Sci*. [10.1242/jcs.041343]. (WB: Rat L6 myoblasts)

## Immunogen:

N-WASP synthetic peptide (coupled to KLH) corresponding 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 the human WASP.

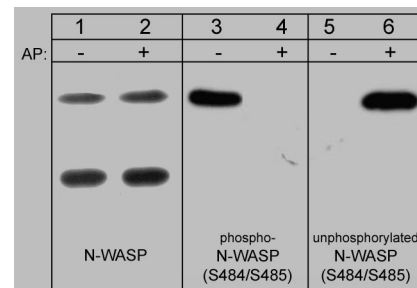
## Applications:

WB 1:1000  
 ELISA 1:2000

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.

## Related Products:

WP2401 unphosphorylated N-WASP (Ser-484/Ser-485) Rabbit Polyclonal  
 WP2201 N-WASP (Ser-484/Ser-485), phospho-specific Rabbit Polyclonal  
 WP2601 N-WASP (Tyr-256), phospho-specific Rabbit Polyclonal  
 WP2101 WASP / N-WASP Rabbit Polyclonal  
 WX2005 N-WASP Peptide



Western blot analysis of control and alkaline phosphatase-treated (AP) neonatal rat brain lysate (20 µg/lane). Blots were probed with anti-N-WASP (Lanes 1 & 2), anti-phospho-N-WASP (S484/S485) (Lanes 3 & 4), or anti-unphosphorylated-N-WASP (S484/S485) (Lanes 5 & 6).

## 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 detects a 65 kDa\* protein corresponding to the molecular mass of N-WASP on SDS-PAGE immunoblots of neonatal rat brain lysate. It is also detects 65 kDa\* proteins in A431, human endothelial, and SKN-SH cells. It does not recognize the 63 kDa\* WASP protein in Jurkat cell lysate.

\*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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