

# Anti-N-WASP

Cat. # **WP2001**  
Host **Rabbit Polyclonal**  
Size **100µl**

## **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.

## **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% to rat and mouse N-WASP, and has low homology to the corresponding region in the human WASP sequence.

## **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.

## **Applications:**

Western blotting 1:1000 dilution<sup>†</sup>  
ELISA 1:2000 dilution

End user should determine optimal dilution for their particular applications and experiments.

<sup>†</sup>Membrane was incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

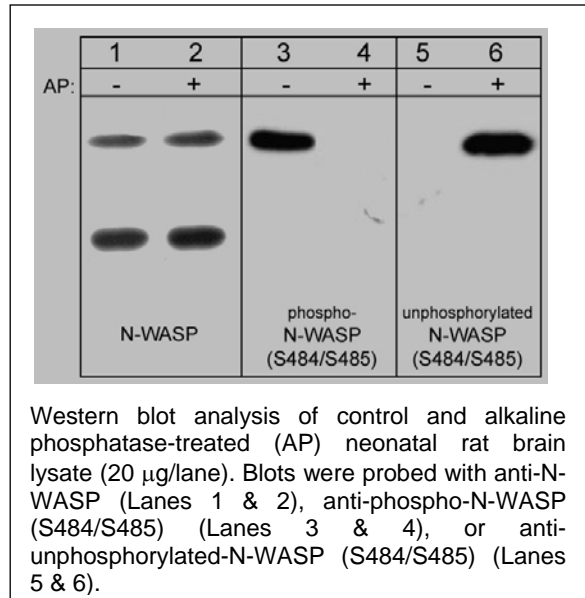
## **Specificity:**

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 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.

## **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 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).

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