

# phospho-N-WASP (S484/S485) Blocking Peptide

Cat. # **WX2205**

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. Phosphorylation regulates the activity of both proteins. Dual phosphorylation of WASP on serine 483 and 484 by casein kinases increase the affinity for the ARP2/3 complex. Thus, dual serine phosphorylation may be important for formation of actin-based structures in various cell types.

## **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:**

Phospho-N-WASP (S484/S485) synthetic peptide corresponds to amino acid residues around serine 484 and 485 of human N-WASP. The human WASP sequence has a similar peptide sequence surrounding serine 483 and 484.

## **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/ml<sup>1</sup>

ELISA 10-100 ng/well<sup>2</sup>

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

<sup>1</sup>Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.

<sup>2</sup>Established 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 (S484/S485) phospho-specific antibody (WP2201) in ELISA, and has been shown to block the reactivity of WP2201 during Western blot. In addition, the peptide is recommended for use in blocking WP2201 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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[www.ecmbiosciences.com](http://www.ecmbiosciences.com)

telephone: 859-879-2075

toll-free: 1-800-859-8202

tech: [info@ecmbiosciences.com](mailto:info@ecmbiosciences.com)

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