

**WASP Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog # 2304-1

Clone ID: EPR2540Y **Lot #:** Please refer to vial
Quantity: 100ul
Type: Rabbit Monoclonal IgG
Species Cross-reactivity*: + Human + Mouse + Rat
Applications: + WB + IHC + ICC + Flow Cytometry + IP
Molecular Wt.: 60 kDa
UniProt ID: P42768

*Species cross-reactivity is based on WB analysis

Background: The Wiskott-Aldrich syndrome (WAS) is an X-chromosome-linked recessive disease characterized by eczema, thrombocytopenia, and immunodeficiency (1). WAS is an immunodeficiency disorder with the most severe pathology in the T lymphocytes and platelets. The disease arises from mutations in the gene encoding the WAS protein (WASP). T lymphocytes of affected males with WAS exhibit a severe disturbance of the actin cytoskeleton, suggesting that the WASP could regulate its organization. Data suggest that the WASP might function as a signal transduction adaptor downstream of Cdc42, and in affected males, the cytoskeletal abnormalities may result from a defect in Cdc42 signaling (2). WASP is a key regulator of the Arp2/3 complex and the actin cytoskeleton in hematopoietic cells. WASP is capable of forming an auto-inhibited conformation, which can be disrupted by binding of Cdc42 and phosphatidylinositol 4,5-bisphosphate, leading to its activation. Stimulation of the collagen receptor on platelets and crosslinking the B-cell receptor induce tyrosine phosphorylation of WASP (3).

Specificity: A synthetic peptide corresponding to residues near the N-terminus of human WASP was used as an immunogen.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:1000 - 2000
ICC: 1:100 - 250
FC: 1:30
IP: 1:30

Please visit www.epitomics.com for recommended protocols

Background References:

1. Kwan SP, et al. Proc Natl Acad Sci, 92(10):4706-10, 1995
2. Kolluri R, et al. Proc Natl Acad Sci 93(11):5615-8, 1996
3. Cory GO, et al. J Biol Chem 277(47):45115-21, 2002

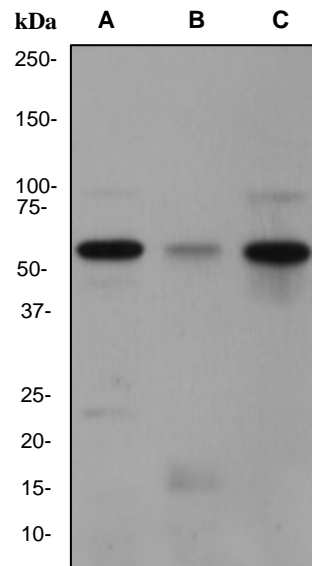


Fig 1. Western blot analysis on (A) TF-1 (B) U937 cell lysate and (C) Jurkat cell lysate using anti-WASP RabMAb (cat. # 2304-1), dilution 1:2000.

Product QC'd by: _____

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit us at www.epitomics.com.