SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-WASP antibody

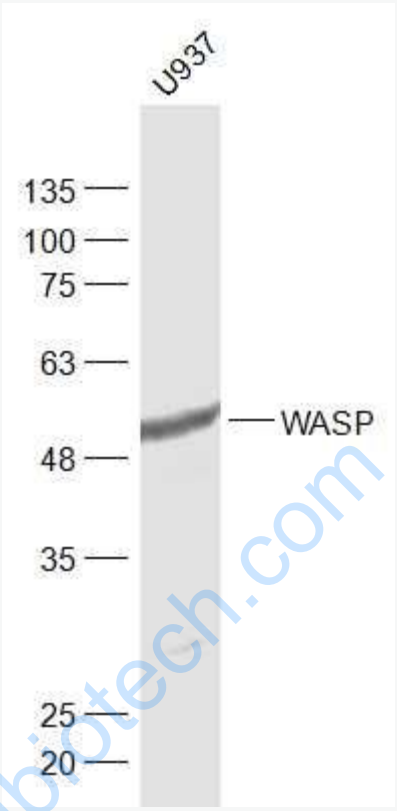
SL13681R

Product Name:	WASP
Chinese Name:	湿疹血小板减少伴免疫缺陷综合征相关蛋白抗体
Alias:	Eczema thrombocytopenia; IMD2; SCNX; THC; THC1; Thrombocytopenia 1 (X linked); U42471; Was; WASp; WASP_HUMAN; Wiskott Aldrich syndrome (eczema thrombocytopenia); Wiskott Aldrich syndrome; Wiskott Aldrich syndrome protein; Wiskott-Aldrich syndrome protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	53kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human WASP:101-200/502
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The Wiskott-Aldrich syndrome (WAS) is a disorder that results from a monogenic defect that has been mapped to the short arm of the X chromosome. WAS is characterized by thrombocytopenia, eczema, defects in cell-mediated and humoral immunity and a propensity for lymphoproliferative disease. The gene that is mutated in

	the syndrome encodes a proline-rich protein of unknown function designated WAS protein (WASP). A clue to WASP function came from the observation that T cells from affected males had an irregular cellular morphology and a disarrayed cytoskeleton suggesting the involvement of WASP in cytoskeletal organization. Close examination of the WASP sequence revealed a putative Cdc42/Rac interacting domain, homologous with those found in PAK65 and ACK. Subsequent investigation has shown WASP to be a true downstream effector of Cdc42. **Function:** Effector protein for Rho-type GTPases, providing a link with the Arp2/3 complex that regulates the structure and dynamics of the actin cytoskeleton. Important for efficient actin polymerization. Possible regulator of lymphocyte and platelet function. **Subunit:** Interacts with NCK1 (via SH3 domains). Interacts with CDC42, RAC, NCK, HCK, FYN, SRC kinase FGR, BTK, ABL1, PSTPIP1, WIP, and to the p85 subunit of PLC-gamma. Binds the Arp2/3 complex. Interacts (via C-terminus) with ALDOA. Interacts with E.coli effector protein EspF(U). **Subcellular Location:** Cytoplasm; cytoskeleton. **Tissue Specificity:** Expressed predominantly in the thymus. Also found, to a much lesser extent, in the spleen **Post-translational modifications:** Phosphorylated at Tyr-291 by FYN and HCK, inducing WAS effector activity after TCR engagement. Phosphorylation at Tyr-291 enhances WAS activity in promoting actin polymerization and filopodia formation. **DISEASE:** Defects in WAS are the cause of Wiskott-Aldrich syndrome (WAS) [MIM:301000]; also known as eczema-thrombocytopenia-immunodeficiency syndrome. WAS is an X-linked recessive immunodeficiency characterized by eczema, thrombocytopenia, recurrent infections, and bloody diarrhea. Death usually occurs before age 10. Defects in WAS are the cause of thrombocytopenia type 1 (THC1) [MIM:313900]. Thrombocytopenia is defined by a decrease in the number of platelets in circulating blood, resulting in the potential for increased bleeding and decreased ability for clotting. Defects in WAS are a cause of neutropenia severe congenital X-linked (XLN) [MIM:300299]. XLN is an immunodeficiency syndrome characterized by recurrent major bacterial infections, severe congenital neutropenia, and monocytopenia. **Similarity:** Contains 1 CRIB domain.

	Contains 1 WH1 domain. Contains 1 WH2 domain. **SWISS:** P42768 **Gene ID:** 7454 **Database links:** Entrez Gene: 7454 Human Entrez Gene: 22376 Mouse Omim: 300392 Human SwissProt: P42768 Human SwissProt: P70315 Mouse Unigene: 2157 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

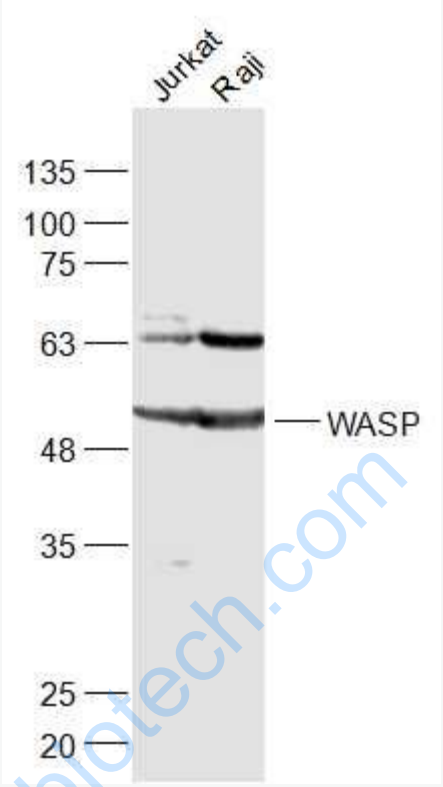
U937(Human) Cell Lysate at 30 ug

Primary: Anti-WASP (SL13681R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD



Sample:

Jurkat(Human) Cell Lysate at 30 ug

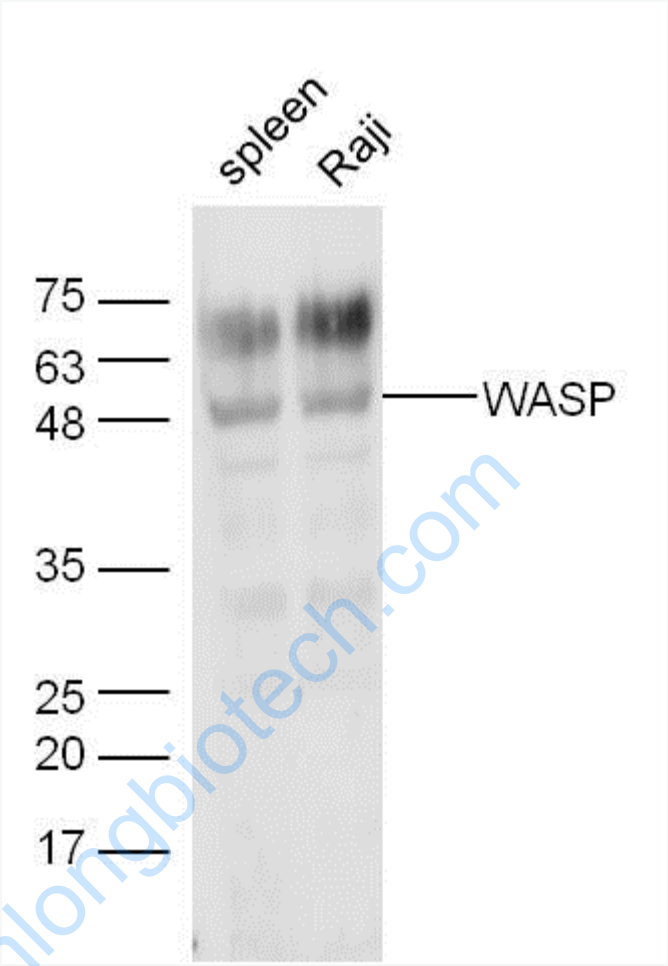
Raji(Human) Cell Lysate at 30 ug

Primary: Anti-WASP (SL13681R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD



Sample:

Spleen (Mouse) Lysate at 40 ug

Raji Cell (Human) Lysate at 30 ug

Primary: Anti- WASP (SL13681R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 50 kD