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PRODUCT DATASHEET

Anti-WASH (C-terminal region) Antibody

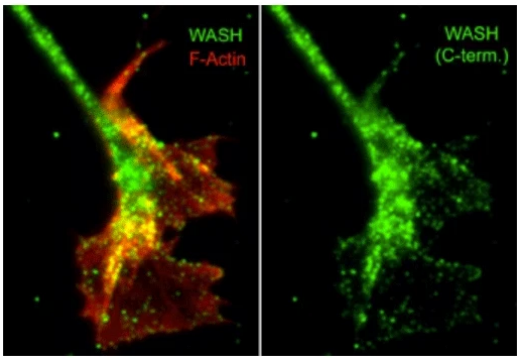
phosphosolutions ANTIBODIES THAT WORK

Product Details

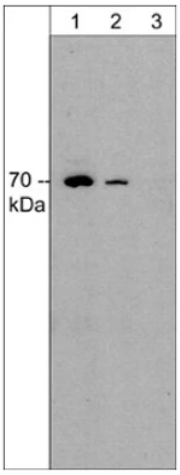
Available Variants	100 µL (SKU:WP4001)
Isotype	IgG
Gene Name	WASHC1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:200
Species Reactivity	Chicken, Human, Mouse, Rat
Immunogen	WASH synthetic peptide (coupled to carrier protein) corresponds to amino acids in the C-terminal region of human WASH. This sequence is highly conserved in rat, mouse, and chicken WASH, and has low homology to other WASP family members.
Specificity	The antibody detects a 70 kDa* protein corresponding to the molecular mass of WASH on SDS-PAGE immunoblots of human Jurkat cells.
Molecular Weight	70 kDa
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_10616809

UniProt ID	A8K0Z3 UniProt Summary: Acts as a component of the WASH core complex that functions as a nucleation-promoting factor (NPF) at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization, playing a key role in the fission of tubules that serve as transport intermediates during endosome sorting. Involved in endocytic trafficking of EGF. Involved in transferrin receptor recycling. Regulates the trafficking of endosomal alpha5beta1 integrin to the plasma membrane and involved in invasive cell migration. In T-cells involved in endosome-to-membrane recycling of receptors including T-cell receptor (TCR), CD28 and ITGAL; proposed to be implicated in T cell proliferation and effector function. In dendritic cells involved in endosome-to-membrane recycling of major histocompatibility complex (MHC) class II probably involving retromer and subsequently allowing antigen sampling, loading and presentation during T-cell activation. Involved in Arp2/3 complex-dependent actin assembly driving Salmonella typhimurium invasion independent of ruffling. Involved in the exocytosis of MMP14 leading to matrix remodeling during invasive migration and implicating late endosome-to-plasma membrane tubular connections and cooperation with the exocyst complex. Involved in negative regulation of autophagy independently from its role in endosomal sorting by inhibiting BECN1 ubiquitination to inactivate PIK3C3/Vps34 activity.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	100287171

Product Images



Immunocytochemical labeling of WASH relative to F-actin in chick DRG neurons. The cells were labeled with rabbit polyclonal WASH (C-terminal region) antibody (WP4001), then the antibody was detected using appropriate secondary antibody (Green). On the left, this WASH labeling is compared to F-actin staining (Red). (Image provided by Dr. Gianluca Gallo at Drexel University).



Western blot of human Jurkat cells (lanes 1-3). The blots were probed with anti-WASH (C-terminal region) rabbit polyclonal antibody at 1:250 (lane 1) or at 1:1000 in the absence (lane 2) or presence of WASH blocking peptide (WX4005) (lane 3).

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