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WASH1 Rabbit Polyclonal Antibody
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Catalog # AP93391

Specification

WASH1 Rabbit Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	A8K0Z3
Reactivity	**Rat, Human, Mouse**
Host	**Polyclonal, Rabbit,IgG**
Clonality	**Polyclonal**
Calculated MW	**50328**

WASH1 Rabbit Polyclonal Antibody - Additional Information

Gene ID 100287171

Other Names
WASH complex subunit 1 {ECO:0000312|HGNC:HGNC:24361}, CXYorf1-like protein on chromosome 9, Protein FAM39E, WAS protein family homolog 1, WASHC1 (HGNC:24361), FAM39E, WASH1

Dilution
WB~~1:1000

Storage Conditions
-20℃

WASH1 Rabbit Polyclonal Antibody - Protein Information

Name WASHC1 (HGNC:24361)

Synonyms FAM39E, WASH1

Function
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 (PubMed:19922874, PubMed:19922875, PubMed:20498093, PubMed:23452853). Involved in endocytic trafficking of EGF (By similarity). Involved in transferrin receptor recycling. Regulates the trafficking of endosomal alpha5beta1 integrin to the plasma membrane and involved in invasive cell migration (PubMed:22114305). 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 (By similarity). 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 (PubMed:24344185). Involved in negative regulation of autophagy independently from its role in endosomal sorting by inhibiting BECN1 ubiquitination to inactivate PIK3C3/Vps34 activity (By similarity).

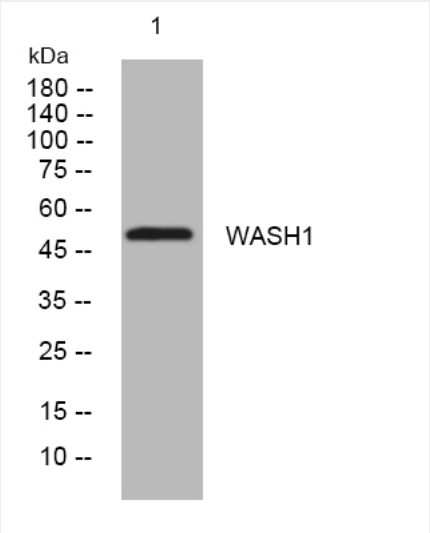
Cellular Location
Early endosome membrane. Recycling endosome membrane {ECO:0000250|UniProtKB:Q8VDD8}. Late endosome. Cytoplasmic vesicle, autophagosome {ECO:0000250|UniProtKB:Q8VDD8}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole {ECO:0000250|UniProtKB:Q8VDD8}. Note=Localization to the endosome membrane is mediated via its interaction with WASHC2 (PubMed:19922874) Localizes to MMP14-positive late endosomes and transiently to invadipodia (PubMed:24344185). Localized to Salmonella typhimurium entry sites (By similarity). {ECO:0000250|UniProtKB:Q8VDD8, ECO:0000269|PubMed:19922874, ECO:0000269|PubMed:24344185}

WASH1 Rabbit Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

WASH1 Rabbit Polyclonal Antibody - Images



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Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4°over night