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WASH1 Rabbit Polyclonal Antibody

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Catalog # AP93391

Product Information

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

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℃

Protein Information

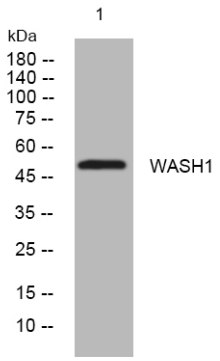
Name	WASHC1 (HGNC:24361)
Synonyms	FAM39E, WASH1
Function	Acts as a component of the WASH core complex that functions as a nucleation-promoting factor (NPF) at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization, playing a key role in the fission 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}

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.