

Recombinant Human WASHC1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. WASHC1-148H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WASH1 MS Standard C13 and N15-labeled recombinant protein (NP_878908) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 (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. Involved in negative

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

regulation of autophagy independently from its role in endosomal sorting by inhibiting BECN1 ubiquitination to inactivate PIK3C3/Vps34 activity.

Molecular Mass 50.1 kDa

AA Sequence

MTPVVMQHS LAGQTYAVPFIQPD LRREEAVQQMADALQYLQKVSGDIFSRISQQVE
 QSR SQVQAIG EKVS LAQAKIEKIKGSKKAIKVFS SAKYPAGRLQEYGSIFTGAQDPG
 LQRRPRHRIQSKHRPLDERALQEKLKDFPVCVSTKPEPEDDAEEGLGGLPSNISSVS
 SLLL FNTTENLYKKYVFLDPLAGAVTKTHVMLGAETEEKLFDAPLSISKREQLQQVP
 ENYFYVPDLGQVPEIHVPSYLPDLPGIANDLMYSADLGPGIAPSAPGTIPELPTFHT
 VAEPLKVDLQDGVLT P P P P P P P P P P P P APEVLASAPLPSTAAPVGQGARQDDSSSS
 ASPSVQGAPREVVDPSGGWATLLESIRQAGGIGKAKLRSMKERKLEKQQQKEQEQ
 VRATSQGGHLSDFNKLVMRRKGISGKGPGAGEGPGGAFVRVSDSIPPLPPPQQ
 PQAEDEDDWESTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name WASHC1 WASH complex subunit 1 [Homo sapiens (human)]

Official Symbol WASHC1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms	WASHC1; WASH complex subunit 1; FAM39E; WASH; WASH1; WASH complex subunit 1; CXYorf1-like protein on chromosome 9; FLJ00075 protein; WAS protein family homolog 1; actin nucleation promoting factor; family with sequence similarity 39, member E
Gene ID	100287171
mRNA Refseq	NM_182905
Protein Refseq	NP_878908
MIM	613632
UniProt ID	A8K0Z3
SDS-PAGE	