

## Product datasheet for **TP309590M**

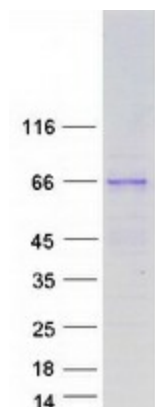
### WASH1 (WASHC1) (NM\_182905) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens WAS protein family homolog 1 (WASH1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209590 representing NM_182905 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MTPVVMQHSLAGQTYAVPFIQPDLRREEAVQQMADALQYLQKVSQDIFSRISQQVEQSRQVQAIGKEV S LAQAKIEKIKGSKKAIKVFSSAKYPAPGRLQEYGSIFTGAQDPGLQRRPRHRIQSKHRPLDERALQEKLK DFPVCVSTKPEPEDDAEEGLGGLPSNISSVSSLLLNTTENLYKKYVFLDPLAGAVTKTHVMLGAETEEK LFDAPLSISKREQLQVQVPENYFYVPDLGQVPEIHVPSYLPDLPGIANDLMYSADLPGIAPSAPGTIPE LPTFHTEVAEPLKVDLQDGVLTTPPPPPPPPPAPEVLASAPLPPSTAAPVGQGARQDDSSSSASPSVQG APREVDPSSGGWATLLESIRQAGGIGKAKLRSMKEREKLEKQQKEQEQVRATSQGGHLMSDLFNKLVMR R KGISGKGPAGGEGPGGAFVRVSDSIPPLPPPQQPQAEDEDDWES  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	50.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.


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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_878908</a>
<b>Locus ID:</b>	100287171
<b>UniProt ID:</b>	<a href="#">A8K0Z3</a>
<b>RefSeq Size:</b>	1851
<b>Cytogenetics:</b>	9p24.3
<b>RefSeq ORF:</b>	1395
<b>Synonyms:</b>	FAM39E; WASH; WASH1
<b>Summary:</b>	<p>Acts 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). Its assembly in the WASH core complex seems to inhibit its NPF activity and via WASHC2 is required for its membrane targeting (PubMed:20498093). 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).[UniProtKB/Swiss-Prot Function]</p>

**Product images:**

Coomassie blue staining of purified WASHC1 protein (Cat# [TP309590]). The protein was produced from HEK293T cells transfected with WASHC1 cDNA clone (Cat# [RC209590]) using MegaTran 2.0 (Cat# [TT210002]).