

## Recombinant Mouse Wdr48 Protein, Myc/DDK-tagged

Cat. No. Wdr48-6983M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse WD repeat domain 48 (cDNA clone MGC:61205 IMAGE:5698339), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>Regulator of deubiquitinating complexes, which acts as a strong activator of USP1, USP12 and USP46. Enhances the USP1-mediated deubiquitination of FANCD2; USP1 being almost inactive by itself. Activates deubiquitination by increasing the catalytic turnover without increasing the affinity of deubiquitinating enzymes for the substrate. Also activates deubiquitinating activity of complexes containing USP12. Docks at the distal end of the USP12 fingers domain and induces a cascade of structural changes leading to the activation of the enzyme. Together with RAD51AP1, promotes DNA repair by stimulating RAD51-mediated homologous recombination. Binds single-stranded DNA (ssDNA) and double-stranded DNA (dsDNA). DNA-binding is required both for USP1-mediated deubiquitination of FANCD2 and stimulation of RAD51-mediated homologous recombination: both WDR48/UAF1 and RAD51AP1 have coordinated role in DNA-binding during these processes.</p>
<b>Molecular Mass</b>	74.4 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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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>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Wdr48 WD repeat domain 48 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Wdr48
<b>Synonyms</b>	Wdr48; WD repeat domain 48; Uaf; Uaf1; mKIAA1449; 8430408H12Rik; WD repeat-containing protein 48; USP1-associated factor 1
<b>Gene ID</b>	67561
<b>mRNA Refseq</b>	NM_026236
<b>Protein Refseq</b>	NP_080512
<b>UniProt ID</b>	Q8BH57

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