

Product datasheet for **TP510070**

Dtx3l (NM_001013371) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse deltex 3-like, E3 ubiquitin ligase (Dtx3l), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species: Mouse
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >MR210070 protein sequence
Red=Cloning site **Green**=Tags(s)

MASSPDPPSPLLVRLRESIPKAHRKLEIYFQSRASGGGECVQPVGPSAPDTYEVKFLKKADKEKVLKKS
EHMLVHNKPVTVLETTKKPVEDLRPRLPSLTQPVETPSSRPPSLTGSLDEALCDDIHPQDGLVNSVD
SVVQKIFLAVTAELNCDLLSKEQRASITTVCPHIIKSMEGSDGIKKVCGNFKDIEKIHHLFSEQLLREQ
KRRGSEQKRKCAPQKHTPPDVEREPPDQSSIQVPVLLLEYFKHVNPGRLEFIEYKFGVNIQASSPNMV
TVGFTSSPFGNVEEASQSFVRDFQKCSQSLKQDCISLEEHRRAKEVRQELSRFCFKLLIKGQGRTLTLG
SPADISAATEKVSQGLGLRPVKITASGYTTGIEVDSTRFKLLEPELLQEISEIEQKFNTRGKVEKQKQK
CILFVPKDKDLDSVQSYTGFTDAFQRATWQLRTEVLSLKGLGKERARLHNTKFADNFKKEHPNVHFVTS
QESVTLTGLPHHLAQAMQYVSKRMGLAPSSGEKLAMDQETPMEISSDPHGGQQENAALPAPRGTSSSPA
ASKGTEDYCVICMDTISNKHVLPKCKHEFCTSCISKAMLIKPVCPVCLTSYGIQKGNQPEGTMSYSTQKG
SLPGYEGCGTIVINYEIKDGIQTKEHPNPGKAYHGTRRTAYLPDNTTEGRKVLDLLHEAFKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 76.6 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
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 after receiving vials.
Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_001013389](#)

Locus ID: 209200

UniProt ID: [Q3UIR3](#)

RefSeq Size: 5181

Cytogenetics: 16 B3

RefSeq ORF: 2076

Synonyms: AU042200; BC023741

Summary: E3 ubiquitin-protein ligase which, in association with ADP-ribosyltransferase PARP9, plays a role in DNA damage repair and in interferon-mediated antiviral responses. Monoubiquitinates several histones, including histone H2A, H2B, H3 and H4. In response to DNA damage, mediates monoubiquitination of 'Lys-91' of histone H4 (H4K91ub1). The exact role of H4K91ub1 in DNA damage response is still unclear but it may function as a licensing signal for additional histone H4 post-translational modifications such as H4 'Lys-20' methylation (H4K20me). PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites. By monoubiquitinating histone H2B HIST1H2BH/H2BJ and thereby promoting chromatin remodeling, positively regulates STAT1-dependent interferon-stimulated gene transcription and thus STAT1-mediated control of viral replication. Independently of its catalytic activity, promotes the sorting of chemokine receptor CXCR4 from early endosome to lysosome following CXCL12 stimulation by reducing E3 ligase ITCH activity and thus ITCH-mediated ubiquitination of endosomal sorting complex required for transport ESCRT-0 components HGS and STAM. In addition, required for the recruitment of HGS and STAM to early endosomes.[UniProtKB/Swiss-Prot Function]