

Recombinant Human DTX3L Protein (A2-E740), Tag Free

Cat. No. DTX3L-0448H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human (GG)-DTX3L(A2-E740 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	A2-E740
Description	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 H2BC9/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

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recruitment of HGS and STAM to early endosomes. In association with PARP9, plays a role in antiviral responses by mediating 'Lys-48'-linked ubiquitination of encephalomyocarditis virus (EMCV) and human rhinovirus (HRV) C3 proteases and thus promoting their proteosomal-mediated degradation.

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	DTX3L deltex 3-like (Drosophila) [Homo sapiens (human)]
Official Symbol	DTX3L
Synonyms	DTX3L; deltex 3-like (Drosophila); E3 ubiquitin-protein ligase DTX3L; BBAP; rhysin 2; rhysin2; rhysin-2; B-lymphoma- and BAL-associated protein;
Gene ID	151636

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mRNA Refseq	NM_138287
Protein Refseq	NP_612144
MIM	613143
UniProt ID	Q8TDB6

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