

DTL Human

Denticleless E3 Ubiquitin Protein Ligase Human Recombinant

RCP0687

Product Overview

Name	DTL Human
Accession(Primary)	Q9NZJ0
Description	Denticleless E3 Ubiquitin Protein Ligase Human Recombinant

Target information (Q9NZJ0)

Gene Name

About Gene Symbol

Background

Denticleless E3 ubiquitin protein ligase (DTL) is part of the E3 ubiquitin ligase family, fundamental to the ubiquitin-proteasome system, which adjusts protein degradation and modification in cells. DTL also participates in numerous critical biological processes, which comprises cell cycle progression, DNA repair, as well as embryonic development. More than a few diseases have been linked with the dysregulation of DTL in particular Cancer, this highlights the importance of DTL as a potential therapeutic goal. DTL takes an important part in regulating the cell cycle, mainly the transition from the G1 phase to the S phase. The degradation of cell cycle regulators, such as cyclins, is also mediated by DTL in that way assuring appropriate cell division in addition to preventing uncontrolled proliferation. DTL is also part of the DNA damage response mechanisms. It ubiquitinates vital proteins which are involved in DNA repair pathways, thus influencing the cellular response to genotoxic stress and preserving genomic integrity.