

## DTX3L (D5F2J) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 84	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q8TDB6	Entrez-Gene Id: 151636
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		DTX3L (D5F2J) Rabbit mAb recognizes endogenous levels of total DTX3L protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val22 of human DTX3L protein.				
Background		The E3 ubiquitin-protein ligase DTX3L (BBAP) is a deltex (DTX) family ligase that binds B aggressive lymphoma 1 (BAL1) to mediate the monoubiquitination of histone H4 Lys91 in response to DNA damage (1,2). The early recruitment of poly-ADP-ribose polymerase 1 (PARP1) protein to sites of DNA damage leads to poly-ADP-ribosylation (PARylation) of multiple target proteins. This results in the subsequent recruitment of DTX3L/BAL1 through binding of the BAL macrodomain to PARylated proteins. DTX3L/BAL1 then mediates the monoubiquitination of histone H4 Lys91 that is required for subsequent methylation of histone H4 Lys20 and recruitment of p53-binding protein 1 (1-3). DTX3L and BAL1 are highly expressed in malignant B-cell lymphomas and act to confer chemotherapy-resistance by protecting cells from DNA damaging agents (4).				
Background References		1. Takeyama, K. et al. (2003) <i>J Biol Chem</i> 278, 21930-7. 2. Yan, Q. et al. (2009) <i>Mol Cell</i> 36, 110-20. 3. Yan, Q. et al. (2013) <i>Mol Cell Biol</i> 33, 845-57. 4. Juszczynski, P. et al. (2006) <i>Mol Cell Biol</i> 26, 5348-59.				
Species Reactiv	rity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		<b>H:</b> Human				
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