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Product datasheet for TA382733

53BP1 (TP53BP1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB,1:500 - 1:2000
Reactivity:	Human
Modifications:	Phospho T543
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic phosphorylated peptide around T543 of human TP53BP1 (NP_001135451.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20℃. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	213kDa/214kDa
Gene Name:	tumor protein p53 binding protein 1
Database Link:	Entrez Gene 7158 Human Q12888

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Background: Double-strand break (DSB repair protein involved in response to DNA damage, telomere dynamics and class-switch recombination (CSR during antibody genesis. Plays a key role in the repair of double-strand DNA breaks (DSBs in response to DNA damage by promoting non-homologous end joining (NHEJ-mediated repair of DSBs and specifically counteracting the function of the homologous recombination (HR repair protein BRCA1. In response to DSBs, phosphorylation by ATM promotes interaction with RIF1 and dissociation from NUDT16L1/TIRR, leading to recruitment to DSBs sites. Recruited to DSBs sites by recognizing and binding histone H2A monoubiquitinated at 'Lys-15' (H2AK15Ub and histone H4 dimethylated at 'Lys-20' (H4K20me2, two histone marks that are present at DSBs sites. Required for immunoglobulin class-switch recombination (CSR during antibody genesis, a process that involves the generation of DNA DSBs. Participates in the repair and the orientation of the broken DNA ends during CSR (By similarity. In contrast, it is not required for classic NHEJ and V(DJ recombination (By similarity. Promotes NHEJ of dysfunctional telomeres via interaction with PAXIP1.

Synonyms: 53BP1; FLJ41424; MGC138366; p53BP1; p202