A Reliable Research Partner in Life Science and Medicine

53BP1 Polyclonal Antibody

catalog number: E-AB-68380

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human; Mouse; Rat

Immunogen Recombinant fusion protein of human 53BP1

Host Rabbit Isotype IgG

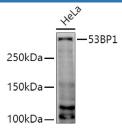
Purification Affinity purification

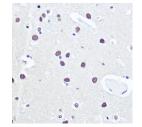
Buffer Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.

Applications Recommended Dilution

WB 1:500-1:2000 **IHC** 1:50-1:200

Data





Western blot analysis of extracts of HeLa cells using 53BP1 Polyclonal Antibody at 1:1000 dilution.

Observed-MW:450 kDa Calculated-MW:213 kDa/214 kDa Immunohistochemistry of paraffin-embedded human brain using 53BP1 Polyclonal Antibody at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Preparation & Storage

Storage Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping The product is shipped with ice pack, upon receipt, store it immediately at the

temperature recommended.

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.

For Research Use Only

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