Anti-Rad18 (human) antibody, rabbit polyclonal

70-023 100 ug

The Rad6-Rad18 pair of genes plays a critical role in post-replication repair of damaged DNA. Rad6 protein functions as an E2 enzyme and Rad18 (495 aa, 56 kDa) as an ubiquitine ligase (E3) which ubiquitinates PCNA. Rad18 recruits translesion DNA polymerases to damaged DNA (Ref 1~3).

Applications: (see Ref 1~3)
1) Western blotting (1,000 fold dilution) 2) Indirect immunofluorescence staining 3) Immunoprecipitation

Immunogen: GST-fusion protein containing 113 carboxyl terminal of human Rad18

Reactivity: Human Rad18. Not reactive to mouse Rad18

Purification: Polyclonal rabbit IgG fraction affinity purified with His-tagged Rad18 protein affinity column

Concentration: 1 mg/ml in PBS, 50% glycerol

Storage: Sent at 4°C or at -20°C, and store at -20°C

Data Link: UniProtKB: E3 ubiquitin-protein ligase RAD18 - Homo sapiens (Human)

References: This product has been used in the following references.

Fig.1 Indirect immunofluorescence staining of Rad18 protein in GM637 cells. Rad18 protein is stained as yellow dots in nuclei.

Fig.2 Identification of Rad18 protein in crude extract of A549 cells by Western blotting. The lower thick band is native Rad18 and the upper thin band is mono-ubiquitinated Rad18 protein (ref. 1)
Fig.3 Colocalization of Rad18 with PCNA on chromatin following UV irradiation. UV-induced colocalization of Rad18 (green) with PCNA (red). GM637 cells irradiated at 15/m² were fixed with methanol 4h after UV irradiation and immunostained with anti-Rad18 antibody (70-023) and anti-PCNA antibody and processed for double staining.