

Anti-Rad6 / UBE2A antibody, rabbit polyclonal

Product code	70-020
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Affinity-purified with immunogen.
Immunogen	Human Rad6B full-length recombinant protein.
Isotype	Rabbit IgG
Reactivity	Reacts with Rad6A and Rad6B of human mouse, rat and hamster. Not tested in other species.
Special notes	N/A
Application	<ol style="list-style-type: none"> 1. Western blotting (1,000~2,000 fold dilution) 2. Immunoprecipitation (assay dependent) 3. Immunofluorescent staining (assay dependent)
Background	<p>Resume of DNA synthesis, which was halted by various physical and chemical factors, was triggered by repair system including Rad6. Rad6 (152a.a, 17.3kDa) is the ubiquitin-conjugated enzyme E2A, and complex with two Rad18 molecules, ubiquitin ligase E3, to ubiquitinate PCNA by utilizing poly-ubiquitin chain that HLTF-UBC13 synthesized and they are involved in translesion DNA synthesis (TLS) and template switch (TS). Two isoforms of Rad6, Rad6A and Rad6B differs in only 6 amino acids. They also play an important role in epigenetic transcriptional regulation by catalyzing the monoubiquitination of histone H2B at Lys-120 .</p>
Data Link	UniProtKB/Swiss P49459 (UBE2A/Rad6A_HUMAN) UniProtKB/Swiss P63146 (UBE2B/Rad6B_HUMAN)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 70-020 Rad6 / UBE2A antibody, rabbit polyclonal

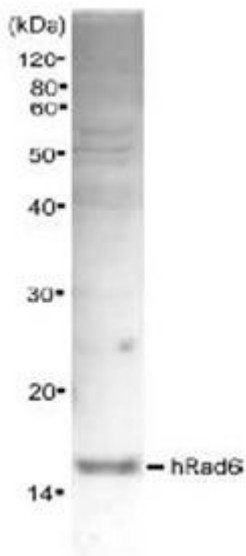


Fig.1 Western blot analysis of Rad6 in the whole cell extracts of HeLa cell (10 μ g) with anti-Rad6.

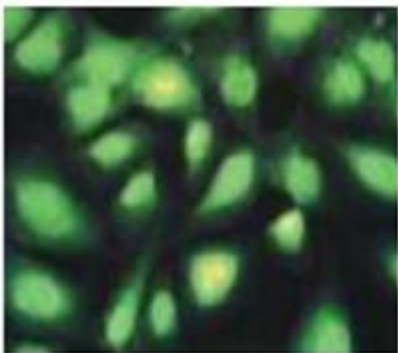


Fig.2 Rad6 protein in GM637 cells were stained by indirect immune-staining method with the Rad6 antibody.

Reference : This product was used in the following Publication

1. Masuyama S. et al. "Regulated expression and dynamic changes in subnuclear localization of mammalian Rad18 under normal and genotoxic conditions" *Genes to Cells* 10: 753-762 (2005)
PubMed [16098139](https://pubmed.ncbi.nlm.nih.gov/16098139/) WB, IF