

**KD-Validated Anti-DUT Rabbit Monoclonal Antibody**  
Rabbit monoclonal antibody  
Catalog # AGI1511**Specification****KD-Validated Anti-DUT Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	<a href="#">P33316</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 27 kDa , observed, 18 kDa KDa
Gene Name	DUT
Aliases	DUT; Deoxyuridine Triphosphatase; DUTP Pyrophosphatase; DUTPase; Deoxyuridine 5'-Triphosphate Nucleotidohydrolase, Mitochondrial; DUTP Diphosphatase; EC 3.6.1.23; DUTP Nucleotidohydrolase; DUTPASE; BMFDMS
Immunogen	A synthesized peptide derived from human DUT

**KD-Validated Anti-DUT Rabbit Monoclonal Antibody - Additional Information**

Gene ID	1854
<b>Other Names</b>	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial, dUTPase, 3.6.1.23, dUTP pyrophosphatase, DUT

**KD-Validated Anti-DUT Rabbit Monoclonal Antibody - Protein Information****Name** DUT**Function**

Catalyzes the cleavage of 2'-deoxyuridine 5'-triphosphate (dUTP) into 2'-deoxyuridine 5'-monophosphate (dUMP) and inorganic pyrophosphate and through its action efficiently prevents uracil misincorporation into DNA and at the same time provides dUMP, the substrate for de novo thymidylate biosynthesis (PubMed: [17880943](http://www.uniprot.org/citations/17880943), PubMed: [8631816](http://www.uniprot.org/citations/8631816), PubMed: [8805593](http://www.uniprot.org/citations/8805593)). Inhibits peroxisome proliferator- activated receptor (PPAR) activity by binding of its N-terminal to PPAR, preventing the latter's dimerization with retinoid X receptor (By similarity). Essential for embryonic development (By similarity).

**Cellular Location**

[Isoform 2]: Nucleus

**Tissue Location**

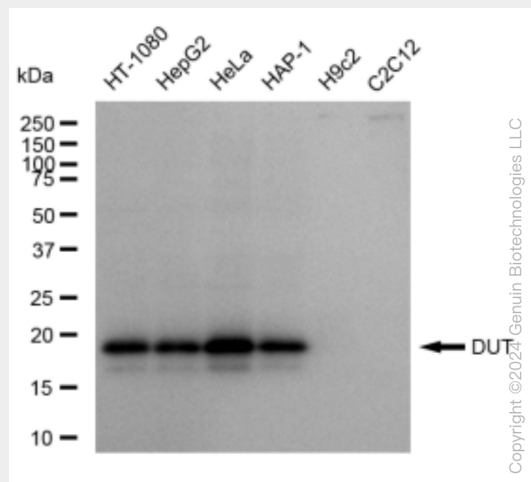
Found in a variety of tissues. Isoform 3 expression is constitutive, while isoform 2 expression correlates with the onset of DNA replication (at protein level). Isoform 2 degradation coincides with the cessation of nuclear DNA replication (at protein level)

### KD-Validated Anti-DUT Rabbit Monoclonal Antibody - Protocols

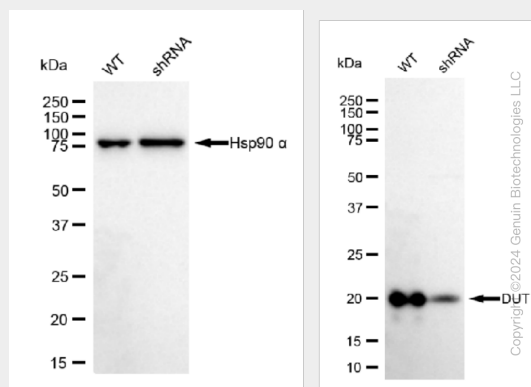
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-DUT Rabbit Monoclonal Antibody - Images

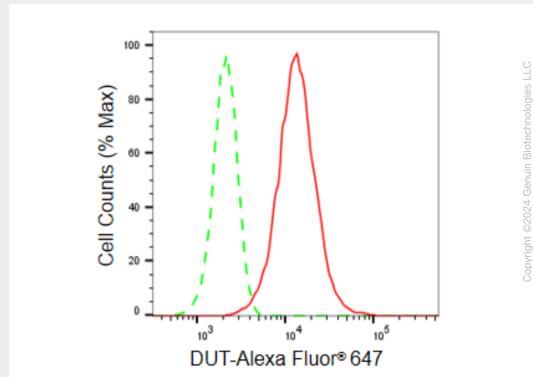


Western blotting analysis using anti-DUT antibody (Cat#AGI1511). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-DUT antibody (Cat#AGI1511, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-DUT antibody (Cat#AGI1511). DUT expression in wild type (WT) and DUT shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves

as a loading control. The blot was incubated with anti-DUT antibody (Cat#AGI1511, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of DUT expression in HeLa cells using DUT antibody (Cat#AGI1511, 1:2,000). Green, isotype control; red, DUT.