

**Goat Anti-HSPC150 / UBE2T Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1545a**Specification****Goat Anti-HSPC150 / UBE2T Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9NPD8</a>
Other Accession	<a href="#">NP_054895</a> , <a href="#">29089</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	22521

**Goat Anti-HSPC150 / UBE2T Antibody - Additional Information**

Gene ID 29089

**Other Names**

Ubiquitin-conjugating enzyme E2 T, 6.3.2.19, Cell proliferation-inducing gene 50 protein, Ubiquitin carrier protein T, Ubiquitin-protein ligase T, UBE2T

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-HSPC150 / UBE2T Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-HSPC150 / UBE2T Antibody - Protein Information**

Name UBE2T



AF1545a (0.1 µg/ml) staining of K562 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-HSPC150 / UBE2T Antibody - Background**

The covalent conjugation of ubiquitin to proteins regulates diverse cellular pathways and proteins. Ubiquitin is transferred to a target protein through a concerted action of a ubiquitin-activating enzyme (E1), a ubiquitin-conjugating enzyme (E2), such as UBE2T, and a ubiquitin ligase (E3) (Machida et al., 2006 [PubMed 16916645]).

**Goat Anti-HSPC150 / UBE2T Antibody - References**

Ubiquitination and downregulation of BRCA1 by ubiquitin-conjugating enzyme E2T overexpression in human breast cancer cells. Ueki T, et al. Cancer Res, 2009 Nov 15. PMID 19887602.  
FANCI binds branched DNA and is monoubiquitinated by UBE2T-FANCL. Longerich S, et al. J Biol Chem, 2009 Aug 28. PMID 19589784.  
Mechanistic insight into site-restricted monoubiquitination of FANCD2 by Ube2t, FANCL, and FANCI. Alpi AF, et al. Mol Cell, 2008 Dec 26. PMID 19111657.

### Function

Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. Catalyzes monoubiquitination. Involved in mitomycin-C (MMC)-induced DNA repair. Acts as a specific E2 ubiquitin-conjugating enzyme for the Fanconi anemia complex by associating with E3 ubiquitin-protein ligase FANCL and catalyzing monoubiquitination of FANCD2, a key step in the DNA damage pathway (PubMed:[16916645](http://www.uniprot.org/citations/16916645)), PubMed:[17938197](http://www.uniprot.org/citations/17938197)), PubMed:[19111657](http://www.uniprot.org/citations/19111657)), PubMed:[19589784](http://www.uniprot.org/citations/19589784)), PubMed:[28437106](http://www.uniprot.org/citations/28437106)). Also mediates monoubiquitination of FANCL and FANCI (PubMed:[16916645](http://www.uniprot.org/citations/16916645)), PubMed:[17938197](http://www.uniprot.org/citations/17938197)), PubMed:[19111657](http://www.uniprot.org/citations/19111657)), PubMed:[19589784](http://www.uniprot.org/citations/19589784)). May contribute to ubiquitination and degradation of BRCA1 (PubMed:[19887602](http://www.uniprot.org/citations/19887602)). In vitro able to promote polyubiquitination using all 7 ubiquitin Lys residues, but may prefer 'Lys-11', 'Lys-27', 'Lys-48' and 'Lys-63'-linked polyubiquitination (PubMed:[20061386](http://www.uniprot.org/citations/20061386)).

### Cellular Location

Nucleus. Note=Accumulates to chromatin

Elevated expression of UBE2T in lung cancer tumors and cell lines. Hao J, et al. Tumour Biol, 2008. PMID 18667844.

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.

### Goat Anti-HSPC150 / UBE2T 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](#)