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Goat Anti-HSPC150 / UBE2T Antibody
Peptide-affinity purified goat antibody
Catalog # AF1545a

Specification

Goat Anti-HSPC150 / UBE2T Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9NPD8
Other Accession	NP_054895, 29089
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

Dilution
WB~~1:1000
E~~N/A

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

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, PubMed:17938197, PubMed:19111657, PubMed:19589784, PubMed:28437106). Also mediates monoubiquitination of FANCL and FANCI (PubMed:16916645, PubMed:17938197, PubMed:19111657, PubMed:19589784). May contribute to ubiquitination and degradation of BRCA1 (PubMed: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).

Cellular Location
Nucleus. Note=Accumulates to chromatin

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 Cytomety
- Cell Culture

Goat Anti-HSPC150 / UBE2T Antibody - Images

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.
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.