UBE2T Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UBE2T, Polyclonal Antibody
Full Product Name	UBE2T Antibody
Product Gene Name	anti-UBE2T antibody
Product Synonym Names	FANCT; PIG50; HSPC150
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification
Specificity	The antibody detects endogenous levels of total UBE2T protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	22,521 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (202300785..202311094, complement). Location: 1q32.1
OMIM	610538
3D Structure	ModBase 3D Structure for Q9NPD8
Immunogen	Full length fusion protein
Product Categories/Family for anti-UBE2T antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-UBE2T antibody	Immunohistochemistry (IHC)
Application Notes for anti-UBE2T antibody	IHC: 1: 20-100
Related Product Information for anti-UBE2T antibody	The protein encoded by this gene catalyzes the covalent attachment of ubiquitin to protein substrates. Defects in this gene have been associated with Fanconi anemia of complementation group T. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-UBE2T antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for UBE2T purchase	MBS8594190 is an antibody targeting UBE2T. Also known as UBE2T Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBE2T. It may not necessarily be applicable to this product.

NCBI GI #	7661808

NCBI GeneID	29089
NCBI Accession #	NP_054895.1
UniProt Primary Accession #	Q9NPD8
UniProt Secondary Accession #	Q2TU36
UniProt Related Accession #	Q9NPD8
GenBank Nucleotide #	NM_014176.3
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 T
NCBI Official Synonym Full Names	ubiquitin-conjugating enzyme E2T (putative)
NCBI Official Symbol	UBE2T
NCBI Official Synonym Symbols	PIG50; HSPC150
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 T
UniProt Synonym Protein Names	Cell proliferation-inducing gene 50 protein; Ubiquitin carrier protein T; Ubiquitin-protein ligase T
Protein Family	Ubiquitin-conjugating enzyme
UniProt Gene Name	UBE2T
UniProt Entry Name	UBE2T_HUMAN
NCBI Protein Information	ubiquitin-conjugating enzyme E2 T; ubiquitin-protein ligase T; ubiquitin carrier protein T; ubiquitin conjugating enzyme; cell proliferation-inducing gene 50 protein; HSPC150 protein similar to ubiquitin-conjugating enzyme
NCBI Summary for UBE2T	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]).[supplied by OMIM, Mar 2008]
UniProt Comments for UBE2T	UBE2T: 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. Also mediates monoubiquitination of FANCL and FANCI. May contribute to ubiquitination and degradation of BRCA1. 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. Belongs to the ubiquitin-conjugating enzyme family. Protein type: EC 6.3.2.19; Ligase; Ubiquitin ligase; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: small conjugating protein ligase activity; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; chromatin binding; ATP binding; ligase activity Biological Process: protein monoubiquitination; protein autoubiquitination; DNA repair; response to DNA damage stimulus Disease: Fanconi Anemia, Complementation Group T
Research Articles on UBE2T	**1.** hypoxic conditions down-regulate UBE2T expression which correlates with an increased sensitivity to crosslinking agents consistent with a defective Fanconi anemia pathway
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