



UBE2D1 peptide (DAG-P1289)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is closely related to a stimulator of iron transport (SFT), and is up-regulated in hereditary hemochromatosis. It also functions in the ubiquitination of the tumor-suppressor protein p53 and the hypoxia-inducible transcription factor HIF1alpha by interacting with the E1 ubiquitin-activating enzyme and the E3 ubiquitin-protein ligases. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]

Specificity	Ubiquitous. Up-regulated in livers of iron-overloaded patients with hereditary hemochromatosis.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ubiquitin-conjugating enzyme family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	UBE2D1 ubiquitin-conjugating enzyme E2D 1 [Homo sapiens (human)]
Official Symbol	UBE2D1

Synonyms	UBE2D1; ubiquitin-conjugating enzyme E2D 1; SFT; UBCH5; UBC4/5; UBCH5A; E2(17)KB1; ubiquitin-conjugating enzyme E2 D1; UBC4/5 homolog; stimulator of Fe transport; ubiquitin-protein ligase D1; ubiquitin carrier protein D1; ubiquitin-conjugating enzyme E2(17)KB 1; ubiquitin-conjugating enzyme E2-17 kDa 1; ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast);
Entrez Gene ID	7321
mRNA Refseq	NM_001204880.1
Protein Refseq	NP_001191809.1
UniProt ID	P51668
Chromosome Location	10q21.1
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Cyclin B, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosyste
Function	ATP binding; protein binding; ubiquitin-protein ligase activity;