Datasheet for ABIN7317442

UBA1 Protein (GST tag,His tag)

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Overview

Quantity:	50 µg
Target:	UBA1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBA1 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human UBE1/UBA1 Protein (His & GST Tag)
Sequence:	Ser 2-Arg 1058
Characteristics:	A DNA sequence encoding the human UBA1 (NP_003325.2) (Ser 2-Arg 1058) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	UBA1
Alternative Name:	UBE1/UBA1 (UBA1 Products)
Background:	Background: UBE1, also known as UBA1, belongs to the ubiquitin-activating E1 family. UBE1 gene complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair. It is part of a gene cluster on chromosome Xp11.23. UBE1

Target Details

	catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. It also catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding an ubiquitin-E1 thioester and free AMP. Defects in UBA1 can cause spinal muscular atrophy X-linked type 2 (SMAX2), also known as X-linked lethal infantile spinal muscular atrophy, distal X-linked arthrogryposis multiplex congenita or X-linked arthrogryposis type 1 (AMCX1). Spinal muscular atrophy refers to a group of neuromuscular disorders characterized by degeneration of the anterior horn cells of the spinal cord, leading to symmetrical muscle weakness and atrophy. SMAX2 is a lethal infantile form presenting with hypotonia, areflexia, and multiple congenital contractures. Synonym: A1S9,A1S9T,A1ST,AMCX1,CFAP124,CTD-2522E6.1,GXP1,POC20,SMAX2,UBA1A,UBE1,UBE1X
Molecular Weight:	146 kDa
NCBI Accession:	NP_003325

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 7.4, 10 % glycerol, 0.5 mM GSH
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.