UBAC1 Protein, Human (GST)

Cat. No.:	HY-P700392
Synonyms:	UBAC1; UBA domain containing 1; UBADC1, ubiquitin associated domain containing 1; ubiquitin-associated domain-containing protein 1; GBDR1; UBA domain-containing protein 1; E3 ubiquitin-protein ligase subunit KPC2; ubiquitin associated domain containing 1; kip1 ubiquitination-promoting complex protein 2; glialblastoma cell differentiation-related protein 1; putative glialblastoma cell differentiation-related protein; UBADC1; RP11-432J22.3;
Species:	Human
Source:	E. coli
Accession:	Q9BSL1 (M1-T405)
Gene ID:	10422
Molecular Weight:	72.3 kDa

PROPERTIES

AA Sequence	M F V Q E E K I F A G K V L R L H I C A S D G A E W L E E A T E D T S V E K L K E R C L K H C A H G S L E D P K S I T H H K L I H A A S E R V L S D A R T I L E E N I Q D Q D V L L L I K K R A P S P L P K M A D V S A E E K K K Q D Q K A P D K E A I L R A T A N L P S Y N M D R A A V Q T N M R D F Q T E L R K I L V S L I E V A Q K L L A L N P D A V E L F K K A N A M L D E D E D E R V D E A A L R Q L T E M G F P E N R A T K A L Q L N H M S V P Q A M E W L I E H A E D P T I D T P L P G Q A P P E A E G A T A A A S E A A A G A S A T D E E A R D E L T E I F K K I R R K R E F R A D A R A V I S L M E M G F D E K E V I D A L R V N N N Q Q N A A C E W L L G D R K P S P E E L D K G I D P D S P L F Q A I L D N P V V Q L G L T N P K T L L A F E D M L E N P L N S T Q W M N D P E T G P V M L Q I S R I F Q T L N R T
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	UBAC1 protein serves as a non-catalytic component within the KPC complex, an E3 ubiquitin-protein ligase complex responsible for mediating the polyubiquitination of target proteins, including CDKN1B and NFKB1. The KPC complex plays a crucial role in cell cycle regulation by catalyzing the polyubiquitination and subsequent proteasome-mediated degradation of CDKN1B during the G1 phase. Additionally, it serves as a key regulator of the NF-kappa-B signaling pathway by promoting the maturation of NFKB1 through ubiquitination of its p105 precursor. In the context of the KPC complex, UBAC1 functions as an adapter, facilitating the transfer of polyubiquitinated target proteins, courtesy of RNF123/KPC1, to the 26S proteasome. UBAC1's involvement underscores its contribution to protein modification processes, particularly in the realm of protein ubiquitination.

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