

KBTBD6 Protein, Human (Sf9)

Cat. No.:	HY-P701577
Synonyms:	KBTBD6; Kelch repeat and BTB domain-containing protein 6
Species:	Human
Source:	Sf9 insect cells
Accession:	Q86V97 (Q2-Q674)
Gene ID:	89890
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	KBTBD6, as a crucial component of the CUL3(KBTBD6/7) E3 ubiquitin ligase complex, functions as a substrate adapter responsible for mediating the 'Lys-48' ubiquitination and subsequent proteasomal degradation of the RAC1 guanine exchange factor (GEF) TIAM1. Through this regulatory mechanism, KBTBD6 governs RAC1 signal transduction, exerting control over diverse downstream biological processes such as cytoskeletal organization, cell migration, and cell proliferation. The ubiquitination process of TIAM1 is contingent on the presence of the membrane-associated protein GABARAP, suggesting a potential local restriction of complex activity. Overall, KBTBD6's involvement in protein ubiquitination highlights its role in modulating cellular signaling pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

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