

## KLHL42 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701588
Synonyms:	KLHL42; Kelch-like protein 42; Cullin-3-binding protein 9; Ctb9; Kelch domain-containing protein 5
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9P2K6 (S2-T505)
Gene ID:	57542
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	KLHL42, functioning as the substrate-specific adapter within the BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex, assumes a pivotal role in mitotic progression and cytokinesis. The BCR(KLHL42) E3 ubiquitin ligase complex orchestrates these essential cellular processes by actively mediating the ubiquitination and subsequent degradation of KATNA1, thereby contributing to the regulation of microtubule dynamics throughout mitosis. The involvement of KLHL42 in protein modification, specifically protein ubiquitination, highlights its significance in fine-tuning the cellular events crucial for proper mitotic progression and cytokinesis. The intricate interplay within the BCR(KLHL42) complex underscores its importance in maintaining the delicate balance required for the dynamic processes associated with cell division.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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