

## KLHL21 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701584
Synonyms:	KLHL21; Kelch-like protein 21
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9UJP4 (E2-H597)
Gene ID:	9903
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

KLHL21, serving as the substrate-specific adapter within the BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex, plays a crucial role in ensuring efficient chromosome alignment and cytokinesis. The BCR(KLHL21) E3 ubiquitin ligase complex is instrumental in orchestrating the localization dynamics of the chromosomal passenger complex (CPC) during anaphase, facilitating its transition from chromosomes to the spindle midzone. Furthermore, this complex actively mediates the ubiquitination of AURKB, a key player in the regulation of cell division. It is noteworthy that, despite the ubiquitination of AURKB by the BCR(KLHL21) E3 ubiquitin ligase complex, this may not necessarily lead to its degradation by the proteasome, highlighting the nuanced nature of protein modification processes governed by KLHL21. The intricate interplay within the BCR(KLHL21) complex underscores its pivotal role in the regulation of cell division through precise control of CPC localization and AURKB ubiquitination, thus contributing to the orchestration of essential cellular events.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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