

## ZRANB1 Protein, Human (Sf9, His)

Cat. No.:	HY-P701486
Synonyms:	ZRANB1; Ubiquitin thioesterase ZRANB1; TRAF-binding domain-containing protein; hTrabid; Zinc finger Ran-binding domain-containing protein 1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9UGI0 (M1-E708)
Gene ID:	54764
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	ZRANB1, functioning as a ubiquitin thioesterase, demonstrates specificity in hydrolyzing 'Lys-29'-linked and 'Lys-33'-linked diubiquitin, with additional activity in cleaving 'Lys-63'-linked chains, albeit less efficiently. Notably, ZRANB1 acts as a positive regulator of the Wnt signaling pathway by deubiquitinating APC protein, a negative regulator of Wnt-mediated transcription. Moreover, it plays a pivotal role in autophagy regulation through the deubiquitination of PIK3C3/VPS34, facilitating autophagosome maturation. Beyond its involvement in intracellular processes, ZRANB1 is implicated in the modulation of cell morphology and cytoskeletal organization, contributing to stress fiber dynamics and cell migration.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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