

ZNRF3 Protein, Human (HEK293, His)

Cat. No.:	HY-P78750
Synonyms:	ZNRF3; Zinc; RING finger protein 3; RING-type E3 ubiquitin transferase ZNRF3; RING finger protein 203; KIAA1133; RNF203
Species:	Human
Source:	HEK293
Accession:	Q9ULT6 (K56-M219)
Gene ID:	84133
Molecular Weight:	Approximately 21 kDa

PROPERTIES

AA Sequence	<p> K E T A F V E V L F E S S P S G D Y T T Y T T G L T G R F S R A G A T L S A E G E I V Q M H P L G L C N N N D E E D L Y E Y G W V G V V K L E Q P E L D P K P C L T V L G K A K R A V Q R G A T A V I F D V S E N P E A I D Q L N Q G S E D P L K R P V V Y V K G A D A I K L M N I V N K Q K V A R A R I Q H R P P R Q P T E Y F D M </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	<p> ZNRF3 is an E3 ubiquitin-protein ligase that functions as a crucial negative regulator of the Wnt signaling pathway. By mediating the ubiquitination and subsequent degradation of key components in the Wnt receptor complex, including Frizzled and LRP6, ZNRF3 plays a pivotal role in modulating both canonical and non-canonical Wnt signaling pathways. Particularly, in the intestinal stem cell zone, ZNRF3 acts as a tumor suppressor by inhibiting Wnt signaling, thereby restricting the size of the intestinal stem cell zone. This regulatory function underscores its significance in controlling cellular processes. In conjunction with RSPO2 and RNF43, ZNRF3 constitutes a master switch governing limb specification, highlighting its broader involvement in developmental pathways. </p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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