

RNF43 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76007
Synonyms:	E3 ubiquitin-protein ligase RNF43; RING finger protein 43; RNF43
Species:	Human
Source:	HEK293
Accession:	Q68DV7 (G24-Y197)
Gene ID:	54894
Molecular Weight:	Approximately 52 kDa

PROPERTIES

AA Sequence	<p>G F G R T G L V L A</p> <p>A A V E S E R S A E Q K A I I R V I P L K M D P T G K L N L T</p> <p>L E G V F A G V A E I T P A E G K L M Q S H P L Y L C N A S D D D N L E P G F I</p> <p>S I V K L E S P R R A P R P C L S L A S K A R M A G E R G A S A V L F D I T E D</p> <p>R A A A E Q L Q Q P L G L T W P V V L I W G N D A E K L M E F V Y K N Q K A H V</p> <p>R I E L K E P P A W P D Y</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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>RNF43, an E3 ubiquitin-protein ligase, serves as a critical negative regulator of the Wnt signaling pathway by orchestrating the ubiquitination, endocytosis, and subsequent degradation of key components in the Wnt receptor complex, specifically targeting Frizzled. This regulatory activity extends to both canonical and non-canonical Wnt signaling pathways. RNF43's role is underscored by its involvement as part of a master switch, alongside RSPO2 and ZNRF3, governing limb specification. This implies its significance in developmental processes and highlights its multifaceted involvement in modulating Wnt signaling, making it a crucial player in cellular and 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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