

## RNF43 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P76008
<b>Synonyms:</b>	E3 ubiquitin-protein ligase RNF43; RING finger protein 43; RNF43
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_060233.3 (G24-Y197)
<b>Gene ID:</b>	54894
<b>Molecular Weight:</b>	Approximately 25-38 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>G F G R T G L V L A    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</p> <p>T 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</p> <p>I 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</p> <p>D 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</p> <p>V R I E L K E P P A    W P D Y</p>
<b>Biological Activity</b>	Human R-Spondin 3, His Tag immobilized on CM5 Chip can bind Human RNF43, His Tag with an affinity constant of 0.255 $\mu\text{M}$ as determined in SPR assay (Biacore T200).
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 $\mu\text{m}$ filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4 or PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/ $\mu\text{g}$ , determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The RNF43 gene encodes a RING-type E3 ubiquitin ligase, predicted to encompass a transmembrane domain, a protease-associated domain, an ectodomain, and a cytoplasmic RING domain. This protein is implicated in the negative regulation of Wnt signaling, exerting its influence through increased ubiquitination of frizzled receptors and inducing alterations in their subcellular distribution, ultimately resulting in reduced surface levels of these receptors. Notably, mutations in this gene
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have been identified in various tumor cells, including those associated with colorectal and endometrial cancers. The gene exhibits broad expression, with notable levels observed in the duodenum (RPKM 7.1), colon (RPKM 6.1), and 24 other tissues. The multifaceted role of RNF43 highlights its significance in modulating critical cellular pathways and its potential implications in tumorigenesis.

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

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