

## RNF43 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P78030
Synonyms:	E3 ubiquitin-protein ligase RNF43; RING finger protein 43; RING-type E3 ubiquitin transferase RNF43; Rnf43
Species:	Mouse
Source:	HEK293
Accession:	Q5NCP0 (G24-Y197)
Gene ID:	207742
Molecular Weight:	53-60 kDa

### PROPERTIES

Biological Activity	Immobilized Mouse R spondin 1, His Tag at 2 µg/mL (100 µl/Well) on the plate. Dose response curve for Mouse RNF43, hFc Tag with the EC <sub>50</sub> of ≤0.21 µg/mL determined by ELISA.
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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 <sub>2</sub> 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	RNF43 is an E3 ubiquitin-protein ligase with a pivotal role as a negative regulator in the Wnt signaling pathway. It functions by facilitating the ubiquitination, endocytosis, and subsequent degradation of components in the Wnt receptor complex, specifically targeting Frizzled. Its regulatory influence extends to both canonical and non-canonical Wnt signaling pathways, as demonstrated in various studies. Additionally, in conjunction with RSPO2 and ZNRF3, RNF43 forms a crucial regulatory triad, serving as a master switch that governs limb specification. This underscores the significance of RNF43 in orchestrating key developmental processes and fine-tuning Wnt signaling for proper cellular functions.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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