

# Recombinant Mouse LRIG1 Protein (His Tag)

Catalog Number:PKSM041310



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

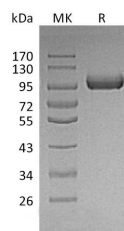
## Description

<b>Synonyms</b>	Leucine-rich repeats and immunoglobulin-like domains protein 1;LIG-1;Lrig1
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ala35-Thr794
<b>Accession</b>	P70193
<b>Calculated Molecular Weight</b>	84.5 kDa
<b>Observed molecular weight</b>	94 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

LRIG1 is a leucine-rich repeat (LRR) and Ig-like domain-containing single-pass transmembrane glycoprotein. LRIG1 shares 45-50% aa identity with its mammalian paralogs, LRIG2 and LRIG3. LRIG1 is expressed widely throughout mouse and human tissues, including the liver, brain, stomach, small intestine, skeletal muscle, cornea, and hair follicle. It has been shown to suppress tumor growth, regulate tissue homeostasis, and maintain stem cell quiescence. The LRIG1 ECD contains three C-type Ig-like domains as well as fifteen LRRs that are flanked by cysteine-rich regions. LRIG1 functions as a tumor suppressor by controlling cell proliferation through the negative regulation of the EGF family of receptor tyrosine kinases. LRIG1 expression, which is often dysregulated in human cancers, is a prognostic indicator of cancer development and relapse? Decreased LRIG1 is associated with an increase in recurrence and mortality for a variety

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of cancers including breast, uterine, headandneck, glioma, prostate, and squamous cell. Tissue homeostasis and stem cell dormancy is also thought to be modulated by the actions of LRIG1 on cell proliferation.

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