

## 32-8975: Recombinant Mouse Leucine-rich Repeats and IG-like Domains Protein 1/LRIG1 (C-6His)

**Gene :** Lrig1  
**Gene ID :** 16206  
**Uniprot ID :** P70193

### Description

Source: Human Cells.

MW :84.5kD.

Recombinant Mouse Leucine-rich Repeats and Immunoglobulin-like Domains Protein 1 is produced by our Mammalian expression system and the target gene encoding Ala35-Thr794 is expressed with a 6His tag at the C-terminus. 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 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** AQAGPRAPCAAACCTCAGDSLDCSGRGLATLPRDLPSWTRSLNLSYNRLSEIDSAAFEDLTNLQEVYLNLSNELTA  
IPSLGAASIGVVSLFLQHNKILSVDGSQLKSYLSLEVLDLSSNNITEIRSSCFPNGLRIRELNLASNRISILESGAFD  
GLSRSLTLRLSKNRITQLPVKAFKLPRLTQLDLNRRNRIEGLTFQGLDSLEVLRQLRNNISRLTDGAFWGLSK  
MHVHLHLEYNSLVEVNSGSLYGLTALHQLHLSNNSISRIQRDQWSFCQKLHELILSFNNLTRLDEESLAESSLIL  
RLSHNAISHIAEGAFKGLKSLRVLDLDHNEISGTIEDTSGAFTGLDNLSKTLFGNKIKSVAKRAFSGLESLEHLNL  
GENAIRSVQFDFAKMKNLKELYISSESFLCDCQLKWLPPWLMGRMLQAFVTATCAHPESLKGQSIFSVLPDSF  
VCDDFPKQIITQPETTMAVVGKDIRFTCSAASSSSSPMTFAWKKDNEVLNADMENFAHVRAQDGEVMEYTT  
ILHLRHVTFGHEGRYQCIITNHFGSTYSHKARLTVNVLPSTFKIPHDIAIRTGTTARLECAATGHPNPQIAWQKDG  
GTDFFPAARERRMHVMPDDDDVFFITDVKIDDMGVYSCTAQNSAGSVSANATLTVLETPSLAVPLEDRVTVGET  
VAFQCKATGSPTPRITWLKGGRPPLSLTERHHFTPGNQLLVVQNMIDDAGRYTCEMSPLGTERAHSQLSILPT  
PGCRKDGTTHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.