

# LRIG1 Antibody

✓ 100 µl  
(10 western blots)



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**For Research Use Only. Not For Use In Diagnostic Procedures.**

**Entrez Gene ID** #26018  
**UniProt ID** #Q96JA1

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C.  
*Do not aliquot the antibody.*

**\*Species cross-reactivity is determined by western blot.**

**\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.**

## Recommended Antibody Dilutions:

Western blotting 1:1000  
Immunoprecipitation 1:100

**For product specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

**Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended complementary products.**

Applications W, IP Endogenous	Species Cross-Reactivity* H, (Mk)	Molecular Wt. 142 kDa	Source Rabbit**
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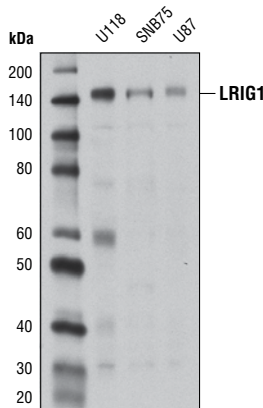
**Background:** Leucine-rich immunoglobulin repeats 1 (LRIG1) is a type I transmembrane protein containing 15 leucine rich repeats and three immunoglobulin domains in the extracellular domain. Researchers characterize LRIG1 as a negative regulator of receptor tyrosine kinase signaling. In studies with ErbB family members and Met kinase, LRIG1 regulates signaling by increasing ubiquitination and lysosomal degradation of the receptors (1,2). Additional work indicates that LRIG1 plays a role in neurotropic signaling by negatively regulating Ret signaling (3,4). Expression profile studies demonstrate that LRIG1 is a marker in the quiescent population of stem cells in the intestine (5). Interestingly, the genetic ablation of one allele of LRIG1 in mice with an APC+/- background results in development of highly dysplastic adenomas, indicating a role for LRIG1 in tumor suppression (1). Indeed, down-regulation of LRIG1 is tentatively involved in tumor aggressiveness in several tumor types, including glioma (6), head and neck cancer (7), and cervical adenocarcinoma (8).

**Specificity/Sensitivity:** LRIG1 Antibody recognizes endogenous levels of total LRIG1 protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human LRIG1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background References:

- (1) Powell, A.E. et al. (2012) *Cell* 149, 146-58.
- (2) Segatto, O. et al. (2011) *J Cell Sci* 124, 1785-93.
- (3) Shattuck, D.L. et al. (2007) *Mol Cell Biol* 27, 1934-46.
- (4) Ledda, F. et al. (2008) *J Neurosci* 28, 39-49.
- (5) Muñoz, J. et al. (2012) *EMBO J* 31, 3079-91.
- (6) Mao, F. et al. (2013) *Int J Oncol* 42, 1081-7.
- (7) Sheu, J.J. et al. (2013) *Oncogene* , .
- (8) Muller, S. et al. (2013) *Int J Oncol* 42, 247-52.



Western blot analysis of extracts from U118, SNB75, and U87 cells using LRIG1 Antibody.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine  
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.