

#12752 Store at -20C

LRIG1 Antibody

Cell Signaling
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 142	Source: Rabbit	UniProt ID: #Q96JA1	Entrez-Gene Id: 26018
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Product Usage
Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

1:100

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.

Specificity / Sensitivity

LRIG1 Antibody recognizes endogenous levels of total LRIG1 protein.

Species predicted to
react based on 100%
sequence homology:

Monkey

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

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, LRIG 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).

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* 33, 1375-84.
8. Muller, S. et al. (2013) *Int J Oncol* 42, 247-52.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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
GP: Guinea Pig Rab: rabbit All: all species expected

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