

LRSAM1 (D1O5S) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	84	Rabbit IgG	#Q6UWE0	90678

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

LRSAM1 (D1O5S) Rabbit mAb recognizes endogenous levels of total LRSAM1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro143 of human LRSAM1 protein.

Background

Leucine-rich repeat and sterile alpha motif-containing protein 1 (LRSAM1, hTAL1) is a multi-domain-containing E3 ubiquitin-ligase involved in the regulation of cell adhesion. The LRSAM1 protein contains amino-terminal leucine-rich repeats (LRR), an ezrin-radixin-moesin (ERM) domain, a coiled-coil region, a sterile alpha motif (SAM) domain, and a carboxy-terminal RING finger domain. Research studies demonstrate that LRSAM1 participates in the endosomal sorting of proteins by regulating the ubiquitination of Tsg101, a component of the ESCRT-I endosomal sorting complex (1). LRSAM1 ubiquitin ligase activity plays a critical role in promoting the ubiquitin-dependent autophagic clearance of pathogenic bacteria (2). Mutations in the corresponding *LRSAM1* gene can contribute to a form of Charcot-Marie-Tooth (CMT2P) disease that is characterized by peripheral nervous system axonal neuropathy (3,4).

Background References

1. Amit, I. et al. (2004) *Genes Dev* 18, 1737-52.
2. Huett, A. et al. (2012) *Cell Host Microbe* 12, 778-90.
3. Wettermann, M.A. et al. (2012) *Hum Mol Genet* 21, 358-70.
4. Nicolaou, P. et al. (2013) *Eur J Hum Genet* 21, 190-4.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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