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TRIM37 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP13288b

Specification

TRIM37 Antibody (C-term) Blocking peptide - Product Information

Primary Accession O94972

TRIM37 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 4591

Other Names
E3 ubiquitin-protein ligase TRIM37, 632-, Mulibrey nanism protein, Tripartite motif-containing protein 37, TRIM37, KIAA0898, MUL, POB1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13288b was selected from the C-term region of TRIM37. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRIM37 Antibody (C-term) Blocking peptide - Protein Information

Name TRIM37 {ECO:0000303|PubMed:28724525, ECO:0000312|HGNC:HGNC:7523}

Function
E3 ubiquitin-protein ligase required to prevent centriole reduplication (PubMed:15885686, PubMed:23769972). Probably acts by ubiquitinating positive regulators of centriole reduplication (PubMed:23769972). Mediates monoubiquitination of 'Lys-119' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression: associates with some Polycomb group (PcG) multiprotein PRC2-like complex and mediates repression of target genes (PubMed:25470042). Also acts as a positive regulator of peroxisome import by mediating monoubiquitination of PEX5 at 'Lys-472': monoubiquitination promotes PEX5 stabilitation by preventing its polyubiquitination and degradation by the proteasome (PubMed:<a href="http://www.uniprot.org/citations/28724525"

target="_blank">28724525). Has anti-HIV activity (PubMed:24317724).

Cellular Location
Chromosome. Cytoplasm, perinuclear region. Peroxisome membrane; Peripheral membrane protein. Note=Found in vesicles of the peroxisome. Aggregates as aggresomes, a perinuclear region where certain misfolded or aggregated proteins are sequestered for proteasomal degradation.

Tissue Location
Ubiquitous (PubMed:10888877). Highly expressed in testis, while it is weakly expressed in other tissues (PubMed:16310976).

TRIM37 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

TRIM37 Antibody (C-term) Blocking peptide - Images

TRIM37 Antibody (C-term) Blocking peptide - Background

This gene encodes a member of the tripartite motif (TRIM)family, whose members are involved in diverse cellular functionssuch as developmental patterning and oncogenesis. The TRIM motifincludes zinc-binding domains, a RING finger region, a B-box motifand a coiled-coil domain. The RING finger and B-box domains chelatezinc and might be involved in protein-protein and/orprotein-nucleic acid interactions. The gene mutations areassociated with mulibrey (muscle-liver-brain-eye) nanism, anautosomal recessive disorder that involves several tissues ofmesodermal origin. Alternatively spliced transcript variantsencoding the same protein have been identified. [provided byRefSeq].

TRIM37 Antibody (C-term) Blocking peptide - References

Xin, X., et al. Genome Res. 19(7):1262-1269(2009)Karlberg, S., et al. Mod. Pathol. 22(4):570-578(2009)Doganc, T., et al. Clin. Dysmorphol. 16(3):173-176(2007)Hamalainen, R.H., et al. Clin. Genet. 70(6):473-479(2006)Olsen, J.V., et al. Cell 127(3):635-648(2006)