

Product datasheet for **TA301687**

Perilipin 3 (PLIN3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	Western Blot: 2 ug/ml, Immunocytochemistry/ Immunofluorescence: 1:100
Reactivity:	Human, Primate, Porcine
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a region within the C-terminus (within residues 350-435) of the human TIP47 protein. [Swiss-Prot# O60664]
Formulation:	Tris-glycine, 150mM NaCl and 0.05% sodium azide
Concentration:	lot specific
Purification:	peptide affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	perilipin 3
Database Link:	NP_005808 Entrez Gene 10226 Human O60664



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Background:

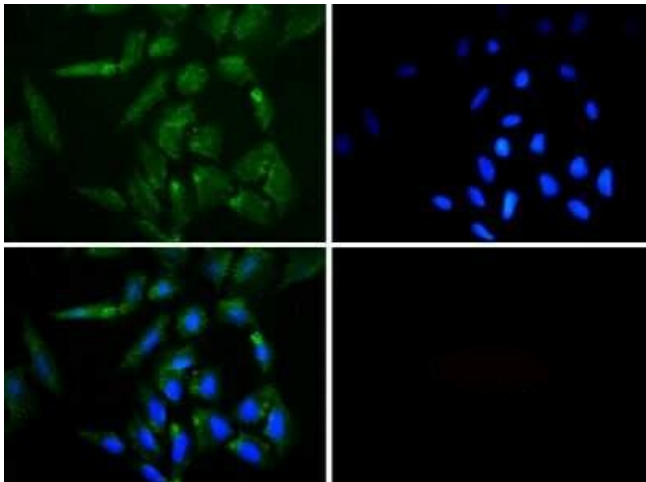
TIP47 has been described as cargo protein involved in the trafficking of the mannose-6-phosphate receptor between endosomes and the Golgi complex. Mannose 6-phosphate receptors (MPRs) deliver lysosomal hydrolase from the Golgi to endosomes and then return to the Golgi complex. The protein encoded by this gene interacts with the cytoplasmic domains of both cation-independent and cation-dependent MPRs, and is required for endosome-to-Golgi transport. This protein also binds directly to the GTPase RAB9 (RAB9A), a member of the RAS oncogene family. The interaction with RAB9 has been shown to increase the affinity of this protein for its cargo. TIP47 has been localized in milk fat globule membranes of human and bovine origin. It has been described as a placental protein, as well. Increased amounts of TIP47 are secreted into circulation of cervix carcinoma patients. Therefore, this protein is probably significant as an oncodevelopmental marker.

Synonyms:

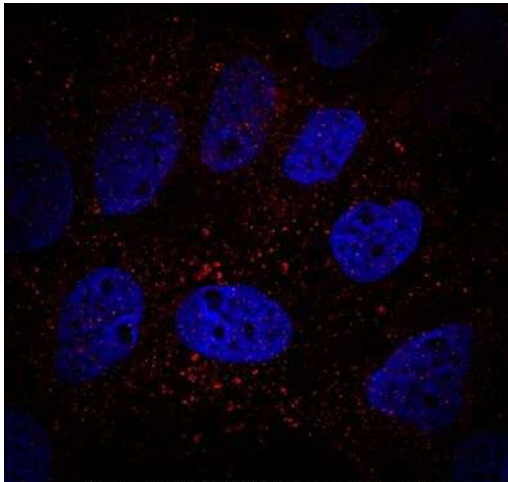
M6PRBP1; PP17; TIP47

Protein Families:

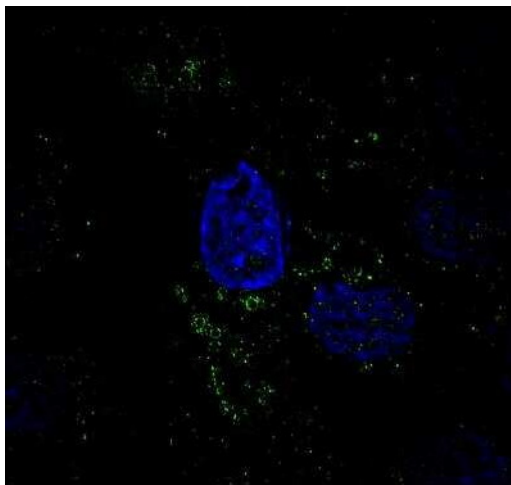
Druggable Genome

Product images:

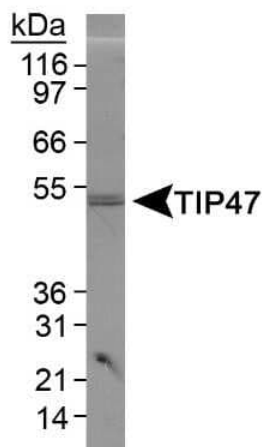
Immunocytochemistry/Immunofluorescence:
Perilipin-3/TIP47 Antibody TA301687 - TIP47 antibody was tested in U2OS cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 549 (red).



Immunocytochemistry/Immunofluorescence: Perilipin-3/TIP47 Antibody TA301687 - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with Perilipin-3/TIP47 Antibody conjugated to DyLight 550 (TA301687R) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



Immunocytochemistry/Immunofluorescence: Perilipin-3/TIP47 Antibody TA301687 - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with Perilipin-3/TIP47 Antibody (TA301687) at 2ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



Western Blot: Perilipin-3/TIP47 Antibody TA301687 - Detection of TIP47 in 3T3 L1 lysate.