

**Goat Anti-GNIP / TRIM7 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1487a****Specification**

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**Goat Anti-GNIP / TRIM7 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O9C029</a>
Other Accession	<a href="#">NP_203128</a> , <a href="#">81786</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	56631

**Goat Anti-GNIP / TRIM7 Antibody - Additional Information****Gene ID** 81786**Other Names**

Tripartite motif-containing protein 7, Glycogenin-interacting protein, RING finger protein 90, TRIM7, GNIP, RNF90

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-GNIP / TRIM7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-GNIP / TRIM7 Antibody - Protein Information****Name** TRIM7**Synonyms** GNIP, RNF90**Function**

E3 ubiquitin-protein ligase that have both tumor-promoting and tumor-suppressing activities and functions in several biological processes including innate immunity, regulation of ferroptosis as well as cell proliferation and migration (PubMed:&lt;a href="http://www.uniprot.org/citations/25851810" target="\_blank"&gt;25851810&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/25851810" target="\_blank"&gt;25851810&lt;/a&gt;)

<http://www.uniprot.org/citations/32853985> target="\_blank">32853985</a>, PubMed:<a href="http://www.uniprot.org/citations/34062120" target="\_blank">34062120</a>). Acts as an antiviral effector against multiple viruses by targeting specific viral proteins for ubiquitination and degradation including norovirus NTPase protein or SARS-CoV-2 NSP5 and NSP8 proteins (PubMed:<a href="http://www.uniprot.org/citations/34062120" target="\_blank">34062120</a>, PubMed:<a href="http://www.uniprot.org/citations/35982226" target="\_blank">35982226</a>). Mechanistically, recognizes the C-terminal glutamine-containing motif usually generated by viral proteases that process the polyproteins and trigger their ubiquitination and subsequent degradation (PubMed:<a href="http://www.uniprot.org/citations/35982226" target="\_blank">35982226</a>, PubMed:<a href="http://www.uniprot.org/citations/35867826" target="\_blank">35867826</a>, PubMed:<a href="http://www.uniprot.org/citations/35893676" target="\_blank">35893676</a>). Mediates 'Lys-63'-linked polyubiquitination and stabilization of the JUN coactivator RNF187 in response to growth factor signaling via the MEK/ERK pathway, thereby regulating JUN transactivation and cellular proliferation (PubMed:<a href="http://www.uniprot.org/citations/25851810" target="\_blank">25851810</a>). Promotes the TLR4-mediated signaling activation through its E3 ligase domain leading to production of pro-inflammatory cytokines and type I interferon (By similarity). Also plays a negative role in the regulation of exogenous cytosolic DNA virus-triggered immune response. Mechanistically, enhances the 'Lys-48'-linked ubiquitination of STING1 leading to its proteasome-dependent degradation (PubMed:<a href="http://www.uniprot.org/citations/32126128" target="\_blank">32126128</a>). Mediates the ubiquitination of the SIN3- HDAC chromatin remodeling complex component BRMS1 (PubMed:<a href="http://www.uniprot.org/citations/32853985" target="\_blank">32853985</a>). Modulates NCOA4-mediated ferritinophagy and ferroptosis in glioblastoma cells by ubiquitinating NCOA4, leading to its degradation (PubMed:<a href="http://www.uniprot.org/citations/36067704" target="\_blank">36067704</a>).

#### **Cellular Location**

Nucleus. Cytoplasm. Golgi apparatus

#### **Tissue Location**

Skeletal muscle and placenta, at lower levels in heart, brain and pancreas. Isoform 1 is widely expressed with high level in testis, kidney and heart.

### **Goat Anti-GNIP / TRIM7 Antibody - Protocols**

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

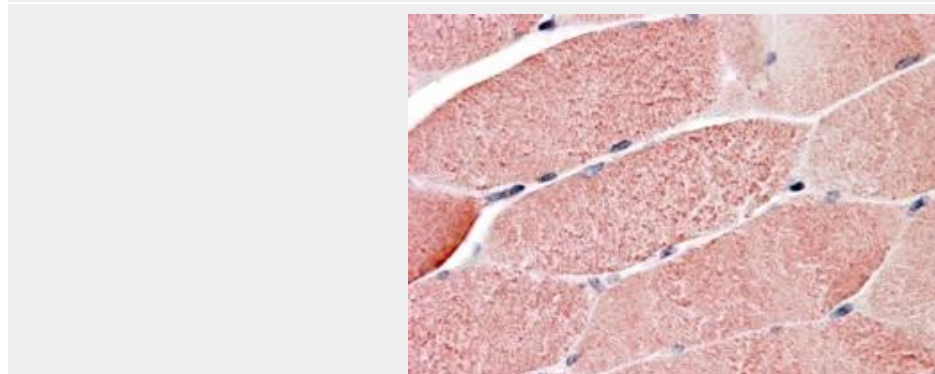
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Goat Anti-GNIP / TRIM7 Antibody - Images**





AF1487a (1 µg/ml) staining of Human Skeletal Muscle lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



AF1487a (3.8 µg/ml) staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **Goat Anti-GNIP / TRIM7 Antibody - Background**

The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1, a B-box type 2, and a coiled-coil region. The protein localizes to both the nucleus and the cytoplasm, and may represent a participant in the initiation of glycogen synthesis. Multiple transcript variants have been found for this gene, and some of them encode the same isoform.

#### **Goat Anti-GNIP / TRIM7 Antibody - References**

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.  
Structure-function analysis of GNIP, the glycogenin-interacting protein. Zhai L, et al. Arch Biochem Biophys, 2004 Jan 15. PMID 14984203.  
Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.  
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.  
GNIP, a novel protein that binds and activates glycogenin, the self-glucosylating initiator of glycogen biosynthesis. Skurat AV, et al. J Biol Chem, 2002 May 31. PMID 11916970.