

**GLTSCR2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17365b****Specification**

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**GLTSCR2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9NZM5</a>
Other Accession	<a href="#">NP_056525.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54389
Antigen Region	430-458

**GLTSCR2 Antibody (C-term) - Additional Information****Gene ID** 29997**Other Names**

Glioma tumor suppressor candidate region gene 2 protein, p60, GLTSCR2

**Target/Specificity**

This GLTSCR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 430-458 amino acids from the C-terminal region of human GLTSCR2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

GLTSCR2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GLTSCR2 Antibody (C-term) - Protein Information****Name** NOP53 ([HGNC:4333](#))**Function** Nucleolar protein which is involved in the integration of the 5S RNP into the ribosomal large subunit during ribosome biogenesis (PubMed:[24120868](#)). In ribosome biogenesis, may also

play a role in rRNA transcription (PubMed:[27729611](#)). Also functions as a nucleolar sensor that regulates the activation of p53/TP53 in response to ribosome biogenesis perturbation, DNA damage and other stress conditions (PubMed:[21741933](#), PubMed:[24120868](#), PubMed:[27829214](#)). DNA damage or perturbation of ribosome biogenesis disrupt the interaction between NOP53 and RPL11 allowing RPL11 transport to the nucleoplasm where it can inhibit MDM2 and allow p53/TP53 activation (PubMed:[24120868](#), PubMed:[27829214](#)). It may also positively regulate the function of p53/TP53 in cell cycle arrest and apoptosis through direct interaction, preventing its MDM2-dependent ubiquitin-mediated proteasomal degradation (PubMed:[22522597](#)). Originally identified as a tumor suppressor, it may also play a role in cell proliferation and apoptosis by positively regulating the stability of PTEN, thereby antagonizing the PI3K-AKT/PKB signaling pathway (PubMed:[15355975](#), PubMed:[16971513](#), PubMed:[27729611](#)). May also inhibit cell proliferation and increase apoptosis through its interaction with NF2 (PubMed:[21167305](#)). May negatively regulate NPM1 by regulating its nucleoplasmic localization, oligomerization and ubiquitin-mediated proteasomal degradation (PubMed:[25818168](#)). Thereby, may prevent NPM1 interaction with MYC and negatively regulate transcription mediated by the MYC-NPM1 complex (PubMed:[25956029](#)). May also regulate cellular aerobic respiration (PubMed:[24556985](#)). In the cellular response to viral infection, may play a role in the attenuation of interferon-beta through the inhibition of RIGI (PubMed:[27824081](#)).

#### Cellular Location

Nucleus, nucleolus. Nucleus, nucleoplasm. Note=In the nucleolus may be more specifically localized to the fibrillar center (PubMed:[27729611](#)). Mainly nucleolar it relocalizes to the nucleoplasm under specific conditions including ribosomal stress enabling it to interact and regulate nucleoplasmic proteins like p53/TP53 (PubMed:[22522597](#), PubMed:[24923447](#), PubMed:[27323397](#), PubMed:[26903295](#)) Also detected in the cytosol (PubMed:[24923447](#), PubMed:[27824081](#))

#### Tissue Location

Expressed at high levels in heart and pancreas, moderate levels in placenta, liver, skeletal muscle, and kidney, and low levels in brain and lung.

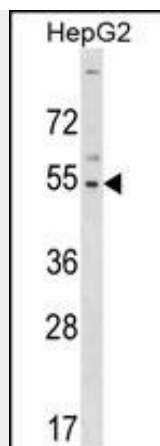
#### GLTSCR2 Antibody (C-term) - Protocols

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](#)

#### GLTSCR2 Antibody (C-term) - Images





GLTSCR2 Antibody (C-term) (Cat. #AP17365b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the GLTSCR2 antibody detected the GLTSCR2 protein (arrow).

#### **GLTSCR2 Antibody (C-term) - Background**

Interacts with HSV-1 early proteins ICP22 and ICP0.

#### **GLTSCR2 Antibody (C-term) - References**

- Kim, J.Y., et al. Pathol. Res. Pract. 206(5):295-299(2010)
- Kalt, I., et al. J. Virol. 84(6):2935-2945(2010)
- Kim, Y.J., et al. J. Pathol. 216(2):218-224(2008)
- Yim, J.H., et al. Cell Death Differ. 14(11):1872-1879(2007)
- Yim, J.H., et al. Pathobiology 74(5):301-308(2007)