GLTSCR2 Rabbit pAb

CatalogNo: YN8558

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human	• WB

MW	Isotype
• 53kD (Calculated)	• IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human GLTSCR2
Specificity	This antibody detects endogenous levels of GLTSCR2 at Human

Target Information

Gene name	GLTSCR2

Protein Name	Glioma tumor suppressor candidate region gene 2 protein (p60)

Organism	Gene ID	UniProt ID
Human	29997;	Q9NZM5;

Cellular Localization Nucleus, nucleolus . Nucleus, nucleoplasm . 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 specificity Expressed at high levels in heart and pancreas, moderate levels in placenta, liver, skeletal muscle, and kidney, and low levels in brain and lung.

Function Nucleolar protein which is involved in the integration of the 5S RNP into the ribosomal large subunit during ribosome biogenesis . In ribosome biogenesis, may also play a role in rRNA transcription . 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 . 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 . 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 . 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 . May also inhibit cell proliferation and increase apoptosis through its interaction with NF2 . May negatively regulate NPM1 by regulating its nucleoplasmic localization, oligomerization and ubiquitin-mediated proteasomal degradation . Thereby, may prevent NPM1 interaction with MYC and negatively regulate transcription mediated by the MYC-NPM1 complex . May also regulate cellular aerobic respiration . In the cellular response to viral infection, may play a role in the attenuation of interferon-beta through the inhibition of DDX58/RIG-1 .

Validation Data

Contact information

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