

GNL2 Rabbit pAb

Catalog # AP98548

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q13823
Other Accession	Q13823
Reactivity	Rat, Mouse
Predicted	Pig, Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83655
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GNL2
Epitope Specificity	1-100/731
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MMR1/HSR1 GTP-binding protein family. NOG2 subfamily. Contains 1 G (guanine nucleotide-binding) domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GNL2 is a nucleolar guanine-triphosphate binding protein that is ubiquitously expressed at low levels in almost all tissues. GNL2 is involved in the crucial process of trafficking proteins out of the nucleus. Specifically, it is a GTPase that interacts with the 60s preribosomal subunit in the nucleus and facilitates export of the subunit into the cytoplasm. GTPases are responsible for the hydrolysis of GTP by way of a protein region dubbed the G domain. GTPases are often involved in the translocating proteins through membranes gleaned energy for the activity by hydrolyzing GTP. GNL2 shares G domain homology and some functionality with nucleostemin (GNL3), another nuclear GTPase. Highest expression of GNL2 is found in testis.

Additional Information

Gene ID	29889
Other Names	HUMAUANTIG; NGP1; Ngp-1; Nog2; Nug2; RGD1305006; NOG2_HUMAN; GNL2; Autoantigen NGP-1; NOG2_MOUSE; G protein nucleolar 2; guanine nucleotide binding protein-like 2 (nucleolar); nucleostemin-2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GNL2
Synonyms	NGP1
Function	GTPase that associates with pre-60S ribosomal subunits in the nucleolus and is required for their nuclear export and maturation (PubMed: 32669547). May promote cell proliferation possibly by increasing p53/TP53 protein levels, and consequently those of its downstream product CDKN1A/p21, and decreasing RPL23A protein levels (PubMed: 26203195).
Cellular Location	Nucleus, nucleolus
Tissue Location	Widely expressed, with the highest expression level in testis.

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