

### Nucleostemin/GLN3 Antibody (CT)

Rabbit Polyclonal Antibody Catalog # ABV11324

## **Specification**

### Nucleostemin/GLN3 Antibody (CT) - Product Information

Application WB, IHC
Primary Accession Q9BVP2
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 61993

# Nucleostemin/GLN3 Antibody (CT) - Additional Information

**Gene ID 26354** 

Positive Control Western blot: HL60 cell line lysate, IHC:

human hepatocarcinoma tissue. WB: 1:1000, IHC: 1:10 - 1:50.

Application & Usage

**Other Names** 

GNL3; E2IG3; NS; Guanine nucleotide-binding protein-like 3; E2-induced gene 3 protein; Novel nucleolar protein 47; Nucleolar GTP-binding protein 3; Nucleostemin

## **Target/Specificity**

Nuclerostemin

### **Antibody Form**

Liquid

### **Appearance**

Colorless liquid

### **Formulation**

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### Handling

The antibody solution should be gently mixed before use.

#### **Reconstitution & Storage**

-20 °C

### **Background Descriptions**

#### **Precautions**

Nucleostemin/GLN3 Antibody (CT) is for research use only and not for use in diagnostic or therapeutic procedures.



## Nucleostemin/GLN3 Antibody (CT) - Protein Information

#### Name GNL3

Synonyms E2IG3, NS

#### **Function**

May be required to maintain the proliferative capacity of stem cells. Stabilizes MDM2 by preventing its ubiquitination, and hence proteasomal degradation (By similarity).

#### **Cellular Location**

Nucleus {ECO:0000250|UniProtKB:Q811S9}. Nucleus, nucleolus. Note=Shuttles between the nucleus and nucleolus. {ECO:0000250|UniProtKB:Q811S9}

#### **Tissue Location**

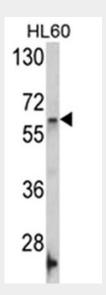
Increased levels in lung tissue in cancer patients.

## Nucleostemin/GLN3 Antibody (CT) - Protocols

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

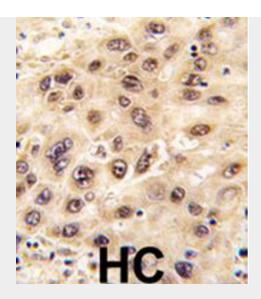
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Nucleostemin/GLN3 Antibody (CT) - Images



Western blot analysis of GNL3 Antibody in HL60 cell line lysates (35  $\mu$ g/lane). GNL3 (arrow) was detected using the purified pAb.





Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with GNL3 antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.

# Nucleostemin/GLN3 Antibody (CT) - Background

Nucleostemin, also designated Nucleolar GTP-binding protein 3, is a member of the MMR1/HSR1 GTP-binding protein family. It is expressed in the nucleoli of adult CNS stem cells, primitive bone marrow cells, and embryonic stem cells and in several cancer cell lines. Nucleostemin is often used as a stem cell marker. Overexpression or depletion of the protein can reduce cell proliferation in CNS stem cells. Nucleostemin shuttles between the nucleus and the nucleolus and may be important in maintaining the proliferative capacity of stem cells. Nucleostemin is important in the growth regulation of liver cancer, gastric cancer and several other cancer types. The gene encoding Nucleostemin is localized to chromosome 3p21.1.