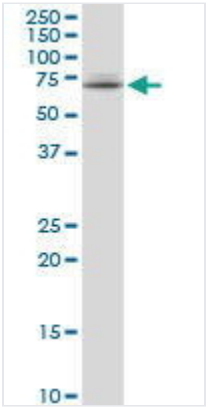
E2IG3 (GNL3) Antibody – Mouse Polyclonal

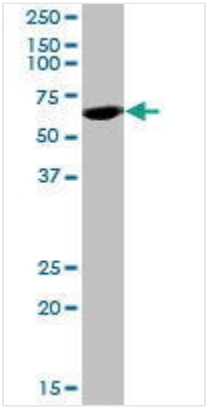
PRODUCT OVERVIEW

Product Name	E2IG3 (GNL3), Polyclonal Antibody
Full Product Name	E2IG3 (Nucleostemin, GNL3, Guanine Nucleotide-binding Protein-Like 3, Nucleolar GTP-binding Protein 3, Nucleostemin, E2-induced Gene 3 Protein, Novel Nucleolar Protein 47, NNP47, NS)
Product Gene Name	anti-GNL3 antibody
Product Synonym Names	Anti -E2IG3 (Nucleostemin, GNL3, Guanine Nucleotide-binding Protein-Like 3, Nucleolar GTP-binding Protein 3, Nucleostemin, E2-induced Gene 3 Protein, Novel Nucleolar Protein 47, NNP47, NS)
Immunogen Sequence	MKRPKLKKAS KRMTCHKRYK IQKKVREHHR KLRKEAKKQG HKKPRKDPGV PNSAPFKEAL LREAELRKQR LEELKQQQKL DRQKELEKKR KLETNPDIKP SNVEPMEKEF GLCKTENKAK SGKQNSKKLY CQELKKVIEA SDVVLEVLDA RDPLGCRCPQ VEEAIVQSGQ KKLVLILNKS DLVPKENLES WLNYLKKELP TVVFRASTKP KDKGKITKRV KAKKNAAPFR SEVCFGKEGL WKLLGGFQET CSKAIRVGVI GFPNVGKSSI INSLKQEQMC NVGVSMGLTR SMQVVPLDKQ ITIIDSPSFI VSPLNSSSAL ALRSPASIEV VKPMEAASAI LSQADARQVV LKYTVPGYRN SLEFFTMLAQ RRGMHQKGGI PNVEGAAKLL WSEWTGASLA YYCHPPTSWT PPPYFNESIV VDMKSGFNLE ELEKNNAQSI RAIKGPHLAN SILFQSSGLT NGIIEEKDIH EELPKRKERK QEEREDDKDS DQETVDEEVD ENSSGMFAAE ETGEALSEET TAGEQSTRSF ILDKIIEEDD AYDFSTDYV
Clonality	Polyclonal
Isotype	IgG
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Recognizes human GNL3.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	61,993 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (52719936..52728513). Location: 3p21.1
OMIM	608011
3D Structure	ModBase 3D Structure for Q9BVP2
Immunogen	Full length human GNL3, aa1-549 (AAH01024.1).
Product Categories/Family for anti-GNL3 antibody	Antibodies; Abs to Binding Proteins
Applications Tested/Suitable for anti-GNL3 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-GNL3 antibody	Suitable for use in Western Blot and Immunofluorescence. Dilution: Immunofluorescence: 10ug/ml

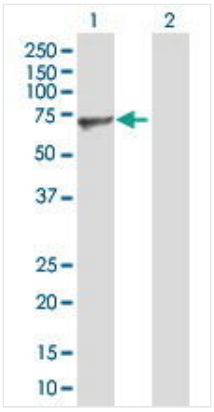
Related Product Information for anti-GNL3 antibody	MBS6006247 is an antibody targeting GNL3. Also known as E2IG3 (Nucleostemin, GNL3, Guanine Nucleotide-binding Protein-Like 3, Nucleolar GTP-binding Protein 3, Nucleostemin, E2-induced Gene 3 Protein, Novel Nucleolar Protein 47, NNP47, NS). Reactive in Human. Host: Mouse. GNL3 may be required to maintain the proliferative capacity of stem cells.
Other Notes	Small volumes of anti-GNL3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



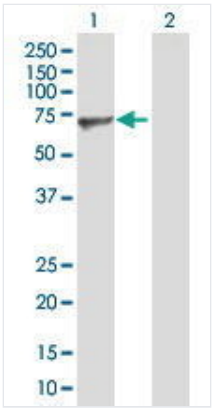
Western Blot (WB) of anti-GNL3 antibody
GNL3 polyclonal antibody. Western Blot analysis of GNL3 expression in HeLa.



Western Blot (WB) of anti-GNL3 antibody
GNL3 polyclonal antibody. Western Blot analysis of GNL3 expression in LNCaP.



Western Blot (WB) of anti-GNL3 antibody
Western Blot analysis of GNL3 expression in transfected 293T cell line by GNL3 polyclonal antibody. Lane 1: GNL3 transfected lysate (60.39kD). Lane 2: Non-transfected lysate.



Immunofluorescence (IF) of anti-GNL3 antibody
Immunofluorescence of purified antibody to GNL3 on HeLa cell. [antibody concentration 10ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNL3. It may not necessarily be applicable to this product.

NCBI GI #	6457340
NCBI GeneID	26354
NCBI Accession #	AAF09482.1
UniProt Primary Accession #	Q9BVP2
UniProt Secondary Accession #	Q5PU80; Q96SV6; Q96SV7; Q9UJY0; B2RDC1
UniProt Related Accession #	Q9BVP2
NCBI Official Full Name	E2IG3
NCBI Official Synonym Full Names	guanine nucleotide binding protein-like 3 (nucleolar)
NCBI Official Symbol	GNL3

NCBI Official Synonym Symbols	NS; E2IG3; NNP47; C77032
UniProt Protein Name	Guanine nucleotide-binding protein-like 3
UniProt Synonym Protein Names	E2-induced gene 3 protein; Novel nucleolar protein 47; NNP47; Nucleolar GTP-binding protein 3; Nucleostemin
Protein Family	Guanine nucleotide-binding protein
UniProt Gene Name	GNL3
UniProt Synonym Gene Names	E2IG3; NS; NNP47
UniProt Entry Name	GNL3_HUMAN
NCBI Protein Information	guanine nucleotide-binding protein-like 3; nucleostemin; E2-induced gene 3 protein; novel nucleolar protein 47; nucleolar GTP-binding protein 3; estradiol-induced nucleotide binding protein
NCBI Summary for GNL3	The protein encoded by this gene may interact with p53 and may be involved in tumorigenesis. The encoded protein also appears to be important for stem cell proliferation. This protein is found in both the nucleus and nucleolus. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]
UniProt Comments for GNL3	GNL3: May be required to maintain the proliferative capacity of stem cells and may play an important role in tumorigenesis. May interact with p53/TP53 via its basic domain. Increased levels in lung tissue in cancer patients. Belongs to the MMR1/HSR1 GTP-binding protein family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase; Cell cycle regulation; RNA-binding; Nucleolus Chromosomal Location of Human Ortholog: 3p21.1 Cellular Component: nucleoplasm; extracellular space; membrane; nucleolus; nucleus Molecular Function: GTPase activity; protein binding; GTP binding Biological Process: cell proliferation; metabolic process; ribosome biogenesis and assembly; regulation of cell proliferation
Research Articles on GNL3	**1.** NS functions downstream of Myc as a rate-limiting regulator of cell proliferation and transformation.
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