

**Goat Anti-Npap60 / Nup50 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1742a****Specification**

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**Goat Anti-Npap60 / Nup50 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">Q9UKX7</a>
Other Accession	<a href="#">NP_705931</a> , <a href="#">10762</a> , <a href="#">18141 (mouse)</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	50144

**Goat Anti-Npap60 / Nup50 Antibody - Additional Information****Gene ID** 10762**Other Names**

Nuclear pore complex protein Nup50, 50 kDa nucleoporin, Nuclear pore-associated protein 60 kDa-like, Nucleoporin Nup50, NUP50, NPAP60L

**Dilution**

WB~~1:1000  
IHC~~1:100~500  
E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-Npap60 / Nup50 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-Npap60 / Nup50 Antibody - Protein Information****Name** NUP50**Synonyms** NPAP60L

**Function**

Component of the nuclear pore complex that has a direct role in nuclear protein import (PubMed:<a href="http://www.uniprot.org/citations/20016008" target="\_blank">20016008</a>). Actively displaces NLSs from importin-alpha, and facilitates disassembly of the importin-alpha:beta-cargo complex and importin recycling (PubMed:<a href="http://www.uniprot.org/citations/20016008" target="\_blank">20016008</a>). Interacts with regulatory proteins of cell cycle progression including CDKN1B (By similarity). This interaction is required for correct intracellular transport and degradation of CDKN1B (By similarity).

**Cellular Location**

Nucleus, nuclear pore complex. Nucleus membrane {ECO:0000250|UniProtKB:O08587}; Peripheral membrane protein {ECO:0000250|UniProtKB:O08587}; Nucleoplasmic side {ECO:0000250|UniProtKB:O08587}. Note=Localizes to the nucleoplasmic fibrils of the nuclear pore complex (By similarity). Dissociates from the NPC structure early during prophase of mitosis (PubMed:12802065) Associates with the newly formed nuclear membrane during telophase (PubMed:12802065). In the testis, the localization changes during germ cell differentiation from the nuclear surface in spermatocytes to the whole nucleus (interior) in spermatids and back to the nuclear surface in spermatozoa (By similarity). {ECO:0000250|UniProtKB:O08587, ECO:0000269|PubMed:12802065}

**Tissue Location**

Ubiquitous. Highest levels in testis, peripheral blood leukocytes and fetal liver

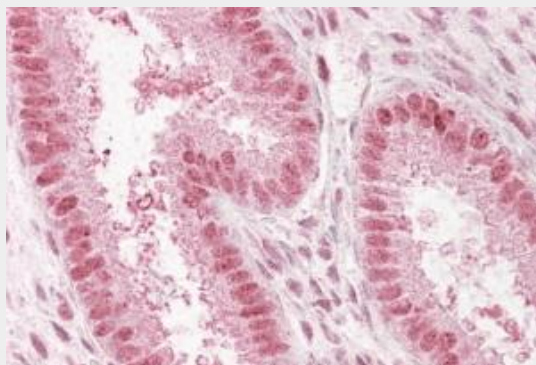
**Goat Anti-Npap60 / Nup50 Antibody - Protocols**

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](#)

**Goat Anti-Npap60 / Nup50 Antibody - Images**

AF1742a staining (0.5 µg/ml) of Jurkat lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



AF1742a (3.8 µg/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **Goat Anti-Npap60 / Nup50 Antibody - Background**

The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. The protein encoded by this gene is a member of the FG-repeat containing nucleoporins that functions as a soluble cofactor in importin- $\alpha$ : $\beta$ -mediated nuclear protein import. Pseudogenes of this gene are found on chromosomes 5, 6, and 14. Two transcript variants encoding different isoforms have been found for this gene.

#### **Goat Anti-Npap60 / Nup50 Antibody - References**

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. *Mol Med*, 2010 Jul-Aug. PMID 20379614.  
Two isoforms of Npap60 (Nup50) differentially regulate nuclear protein import. Ogawa Y, et al. *Mol Biol Cell*, 2010 Feb 15. PMID 20016008.  
Mammalian BTBD12/SLX4 assembles a Holliday junction resolvase and is required for DNA repair. Svendsen JM, et al. *Cell*, 2009 Jul 10. PMID 19596235.  
Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen JV, et al. *Cell*, 2006 Nov 3. PMID 17081983.  
A probability-based approach for high-throughput protein phosphorylation analysis and site localization. Beausoleil SA, et al. *Nat Biotechnol*, 2006 Oct. PMID 16964243.