

**NSFL1C Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP22235a**

**Specification**

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**NSFL1C Antibody (N-Term) - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB, IHC-P, FC,E   |
| Primary Accession | <a href="#">O9UNZ2</a>  |
| Other Accession   | <a href="#">O3SZC4</a> , <a href="#">O9CZ44</a> , <a href="#">O5RBG3</a> , <a href="#">O35987</a> |
| Reactivity        | Human   |
| Predicted         | Bovine, Mouse, Rat  |
| Host              | Rabbit  |
| Clonality         | polyclonal  |
| Isotype           | Rabbit IgG  |
| Calculated MW     | 40573   |

**NSFL1C Antibody (N-Term) - Additional Information**

**Gene ID** 55968

**Other Names**

NSFL1 cofactor p47, UBX domain-containing protein 2C, p97 cofactor p47, NSFL1C, UBXN2C

**Target/Specificity**

This NSFL1C antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 37-71 amino acids from human NSFL1C.

**Dilution**

WB~~1:2000

IHC-P~~1:25

FC~~1:25

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

NSFL1C Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NSFL1C Antibody (N-Term) - Protein Information**

**Name** NSFL1C

## Synonyms UBXN2C

**Function** Reduces the ATPase activity of VCP (By similarity). Necessary for the fragmentation of Golgi stacks during mitosis and for VCP- mediated reassembly of Golgi stacks after mitosis (By similarity). May play a role in VCP-mediated formation of transitional endoplasmic reticulum (tER) (By similarity). Inhibits the activity of CTSL (in vitro) (PubMed:[15498563](#)). Together with UBXN2B/p37, regulates the centrosomal levels of kinase AURKA/Aurora A during mitotic progression by promoting AURKA removal from centrosomes in prophase (PubMed:[23649807](#)). Also, regulates spindle orientation during mitosis (PubMed:[23649807](#)).

## Cellular Location

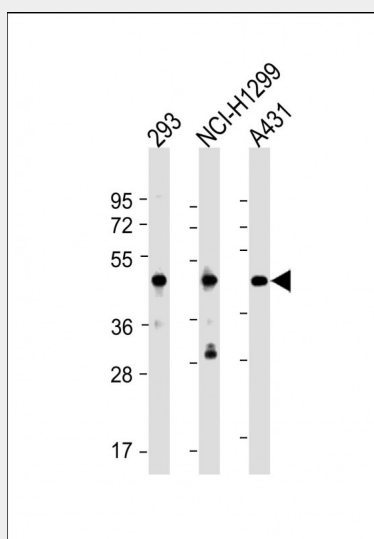
Nucleus {ECO:0000250|UniProtKB:O35987}. Golgi apparatus, Golgi stack {ECO:0000250|UniProtKB:O35987}. Chromosome {ECO:0000250|UniProtKB:O35987}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:O35987} Note=Predominantly nuclear in interphase cells. Bound to the axial elements of sex chromosomes in pachytene spermatocytes. A small proportion of the protein is cytoplasmic, associated with Golgi stacks Localizes to centrosome during mitotic prophase and metaphase {ECO:0000250|UniProtKB:O35987}

## NSFL1C Antibody (N-Term) - Protocols

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

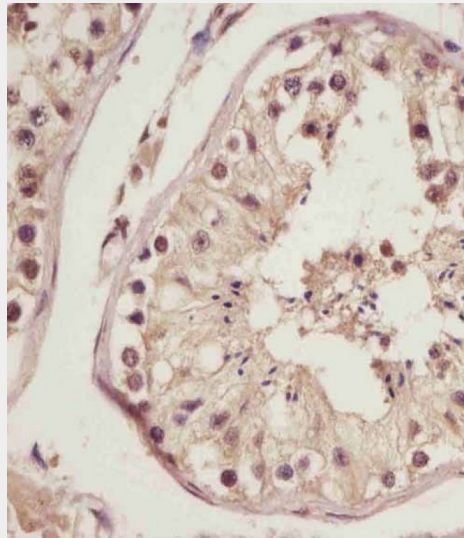
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## NSFL1C Antibody (N-Term) - Images

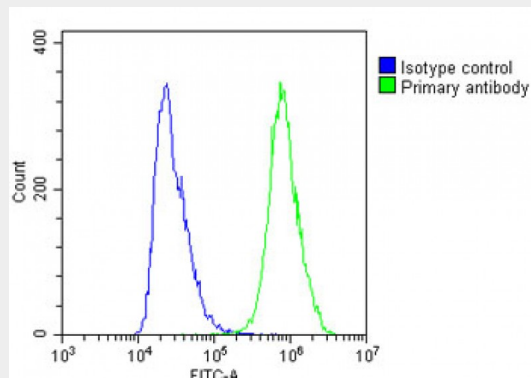


All lanes : Anti-NSFL1C Antibody (N-Term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: NCI-H1299 whole cell lysate Lane 3: A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band

size : 41 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



AP22235a staining NSFL1C in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing A431 cells stained with AP22235a (green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

### NSFL1C Antibody (N-Term) - Background

Reduces the ATPase activity of VCP. Necessary for the fragmentation of Golgi stacks during mitosis and for VCP-mediated reassembly of Golgi stacks after mitosis. May play a role in VCP-mediated formation of transitional endoplasmic reticulum (tER) (By similarity). Inhibits the activity of CTSL (in vitro).

### NSFL1C Antibody (N-Term) - References

Yue P., et al. Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.  
Hu R.-M., et al. Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).  
Zhang Q.-H., et al. Genome Res. 10:1546-1560(2000).

Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Deloukas P.,et al.Nature 414:865-871(2001).