

# Anti-NUP98 antibody [EPR6678] - BSA and Azide free ab226102

Recombinant RabMAb

4 Images

### Overview

<b>Product name</b>	Anti-NUP98 antibody [EPR6678] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR6678] to NUP98 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody recognises Nuclear pore complex protein Nup96 of Nuclear pore complex protein Nup98-Nup96.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	HeLa, SH-SY5Y, and Caco-2 cell lysates and Human colon tissue.
<b>General notes</b>	<p>ab226102 is the carrier-free version of <a href="#">ab124980</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p>

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR6678
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab226102 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 188 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended.

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

<b>Function</b>	Nup98 and Nup96 play a role in the bidirectional transport across the nucleoporin complex (NPC). The repeat domain in Nup98 has a direct role in the transport.
<b>Involvement in disease</b>	Note=A chromosomal aberration involving NUP98 is found in a form of acute myeloid leukemia. Translocation t(7;11)(p15;p15) with HOXA9. Translocation t(11;17)(p15;p13) with PHF23. Note=A chromosomal aberration involving NUP98 is found in childhood acute myeloid leukemia. Translocation t(5;11)(q35;p15.5) with NSD1. Translocation t(8;11)(p11.2;p15) with WHSC1L1. Note=A chromosomal aberration involving NUP98 is found in a form of therapy-related myelodysplastic syndrome. Translocation t(11;20)(p15;q11) with TOP1.

Note=A chromosomal aberration involving NUP98 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(3;11)(q12.2;p15.4) with LNP1.

Note=A chromosomal aberration involving NUP98 is associated with pediatric acute myeloid leukemia (AML) with intermediate characteristics between M2-M3 French-American-British (FAB) subtypes. Translocation t(9;11)(p22;p15) with PSIP1/LEDGF. The chimeric transcript is an in-frame fusion of NUP98 exon 8 to PSIP1/LEDGF exon 4.

#### Sequence similarities

Belongs to the nucleoporin GLFG family.

Contains 1 peptidase S59 domain.

#### Domain

Contains G-L-F-G repeats.

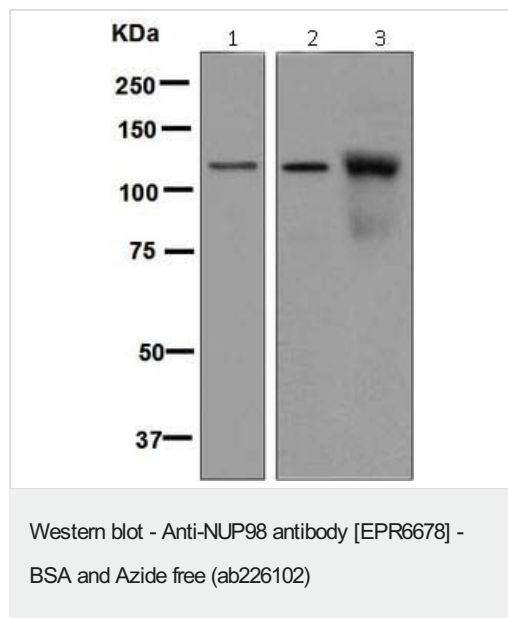
#### Post-translational modifications

Isoform 1 to isoform 4 are autoproteolytically cleaved to yield Nup98 and Nup96 or Nup98 only, respectively. Cleaved Nup98 is necessary for the targeting of Nup98 to the nuclear pore and the interaction with Nup96.

#### Cellular localization

Nucleus > nuclear pore complex. Nucleus membrane. Nup96 is localized to the nucleoplasmic side of the nuclear pore complex, at or near the nucleoplasmic basket.

#### Images



**All lanes :** Anti-NUP98 antibody [EPR6678] - Nuclear Pore Marker ([ab124980](#)) at 1/1000 dilution

**Lane 1 :** HeLa cell lysate

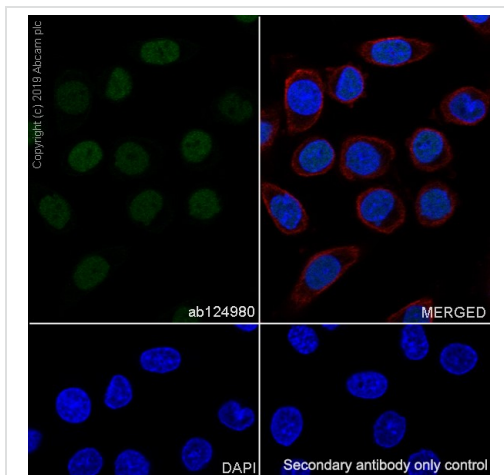
**Lane 2 :** SH-SY5Y cell lysate

**Lane 3 :** Caco-2 cell lysate

Lysates/proteins at 10 µg per lane.

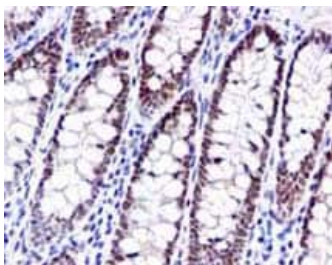
**Predicted band size:** 188 kDa

This data was developed using [ab124980](#), the same antibody clone in a different buffer formulation.



Immunocytochemistry/ Immunofluorescence - Anti-NUP98 antibody [EPR6678] - BSA and Azide free (ab226102)

This data was developed using **ab124980**, the same antibody clone in a different buffer formulation. **ab124980** staining NUP98 in SH-SY5Y, human neuroblastoma epithelial cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% Paraformaldehyde, permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody (1/500). Ab150077, an Alexa Fluor® 594-conjugated Goat anti rabbit (1:1000) (**ab150077**) was used as the secondary antibody. Counterstained with **ab195889**, an Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (1/100). Nuclear counterstained with DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NUP98 antibody [EPR6678] - BSA and Azide free (ab226102)

This data was developed using **ab124980**, the same antibody clone in a different buffer formulation. **ab124980**, at 1/50 to 1/100, staining NUP98 in Human colon tissue by immunohistochemistry [Paraffin Embedded Tissues (IHC-P)]. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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