

Product datasheet

Anti-NUP98 antibody [EPR6678] - Nuclear Pore Marker ab124980

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [1 References](#) [4 Images](#)

Overview

Product name	Anti-NUP98 antibody [EPR6678] - Nuclear Pore Marker
Description	Rabbit monoclonal [EPR6678] to NUP98 - Nuclear Pore Marker
Host species	Rabbit
Specificity	ab124980 recognises Nuclear pore complex protein Nup96 of Nuclear pore complex protein Nup98-Nup96.
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human NUP98 aa 1600-1700. The exact sequence is proprietary. The immunogen sequence is within Nuclear pore complex protein Nup96 of the Nuclear pore complex protein Nup98-Nup96. Database link: P52948
Positive control	HeLa, SH-SY5Y, and Caco-2 cell lysates and Human colon tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Purification notes	Not purified; provided in cell supernatant and storage buffer.
Clonality	Monoclonal
Clone number	EPR6678
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124980 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
WB		1/1000 - 1/10000. Predicted molecular weight: 188 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended.
ICC/IF		1/50 - 1/100.

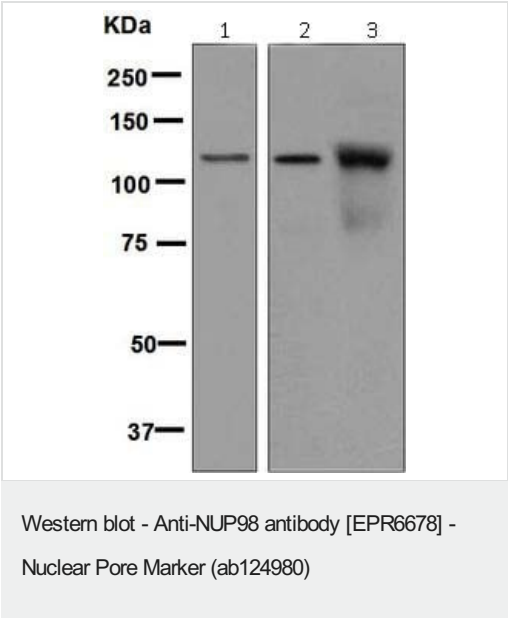
Application notes Is unsuitable for Flow Cyt or IP.

Target

Function	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.
Involvement in disease	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	Isoform 1 to isoform 4 are autoproteolytically cleaved to yield Nup98 and Nup96 or Nup98 only,

modifications	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

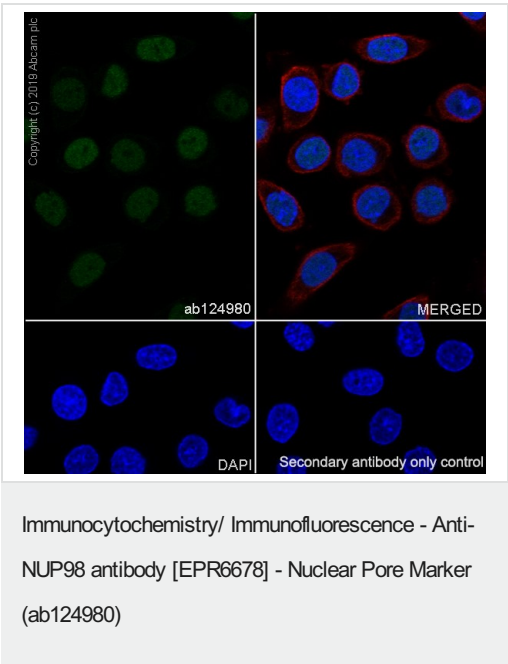
Lane 1 : HeLa cell lysate

Lane 2 : SH-SY5Y cell lysate

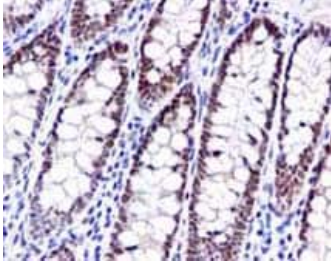
Lane 3 : Caco-2 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 188 kDa



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] - Nuclear Pore Marker (ab124980)

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?



Anti-NUP98 antibody [EPR6678] - Nuclear Pore Marker (ab124980)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors