

Product datasheet

Anti-NUP98 antibody [EPR22818-128] ab234434

Recombinant **RabMAb**

3 Images

Overview

Product name	Anti-NUP98 antibody [EPR22818-128]
Description	Rabbit monoclonal [EPR22818-128] to NUP98
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, Jurkat, MCF7, HepG2, NIH/3T3, A20, PC-12, RAW264.7 whole cell lysate. Mouse testis and kidney tissue lysate. Human testis tissue lysate.
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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22818-128

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab234434 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. Detects a band of approximately 98 kDa (predicted molecular weight: 198 kDa).

Application notes

Is unsuitable for Flow Cyt, ICC/IF, IHC-P 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.

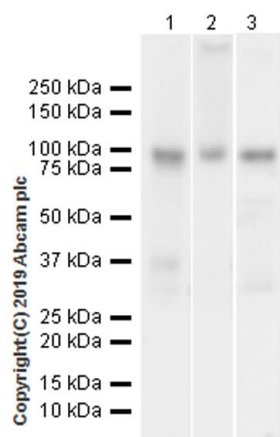
Post-translational modifications

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



Western blot - Anti-NUP98 antibody [EPR22818-128] (ab234434)

All lanes : Anti-NUP98 antibody [EPR22818-128] (ab234434) at 1/1000 dilution

Lane 1 : Mouse testis tissue lysate

Lane 2 : Mouse kidney tissue lysate

Lane 3 : Human testis tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

Lanes 1-2 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

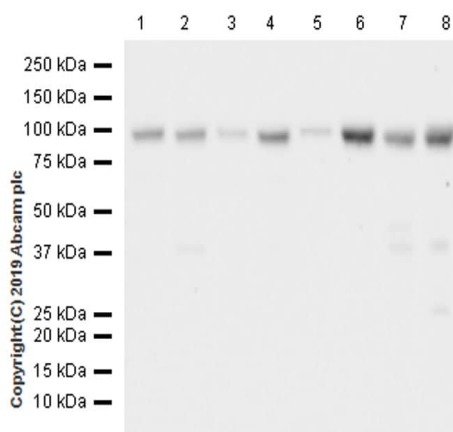
Lane 3 : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

Predicted band size: 198 kDa

Observed band size: 98 kDa

Exposure time: Lanes 1-2: 15 seconds Lane 3: 5.5 seconds.

Blocking and Diluting Buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-NUP98 antibody [EPR22818-128] (ab234434)

All lanes : Anti-NUP98 antibody [EPR22818-128] (ab234434) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

Lane 2 : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

Lane 3 : MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lane 4 : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate

Lane 5 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

Lane 6 : A20 (mouse reticulum sarcoma B lymphocyte), whole cell lysate

Lane 7 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

Lane 8 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 198 kDa





Observed band size: 98 kDa

Exposure time: 48 seconds

Recommend using fresh lysates to avoid target protein being degraded.

Blocking and Diluting Buffer and concentration: 5% NFDM/TBST.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-NUP98 antibody [EPR22818-128] ([ab234434](#))

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

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