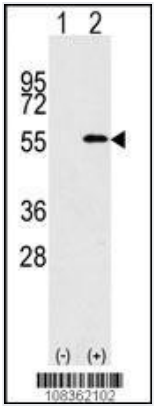
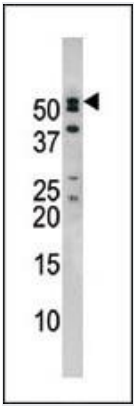
NUP50 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NUP50, Polyclonal Antibody
Full Product Name	NUP50, CT (Nucleoporin 50kD, NUP50 Protein, NUP50, HCG1989366, isoform CRA_c, CTA-268H5.7-002) (Biotin)
Product Gene Name	anti-NUP50 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human NUP50. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	46.863
OMIM	604646
3D Structure	ModBase 3D Structure for Q8N6V5
Immunogen	Synthetic peptide selected from the C-terminal region of human NUP50 (KLH).
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-NUP50 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-NUP50 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-NUP50 antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NUP50 antibody	MBS6490398 is an antibody targeting NUP50. Also known as NUP50, CT (Nucleoporin 50kD, NUP50 Protein, NUP50, HCG1989366, isoform CRA_c, CTA-268H5.7-002) (Biotin). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-NUP50 antibody	1. Lindsay, M.E., et al., Cell 110(3):349-360 (2002). 2. Swaminathan, S., et al., Dev. Cell 3(3):304-306 (2002). 3. Smitherman, M., et al., Mol. Cell. Biol. 20(15):5631-5642 (2000). 4. Guan, T., et al., Mol. Cell. Biol. 20(15):5619-5630 (2000). 5. Collins, J.E., et al., Genome Biol. 5(10), R84 (2004).
Other Notes	Small volumes of anti-NUP50 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-NUP50 antibody
Western blot analysis of NUP50 (arrow) using rabbit polyclonal NUP50 Antibody (C-term) (RB08362). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the NUP50 gene (Lane 2) (Origene Technologies).



Western Blot (WB) of anti-NUP50 antibody
Western blot analysis of anti-NUP50 Pab in mouse brain tissue lysate. NUP50(arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUP50. It may not necessarily be applicable to this product.

NCBI GI #	24497447
NCBI GeneID	10762
NCBI Accession #	NP_705931
UniProt Primary Accession #	Q8N6V5
UniProt Related Accession #	Q9UKX7
GenBank Nucleotide #	NP_705931.1
NCBI Official Full Name	nuclear pore complex protein Nup50 isoform a
NCBI Official Synonym Full Names	nucleoporin 50
NCBI Official Symbol	NUP50
NCBI Official Synonym Symbols	NPAP60; NPAP60L
UniProt Protein Name	Nuclear pore complex protein Nup50
UniProt Synonym Protein Names	50 kDa nucleoporin; Nuclear pore-associated protein 60 kDa-like; Nucleoporin Nup50
Protein Family	Nuclear pore complex protein
UniProt Gene Name	NUP50
UniProt Synonym Gene Names	NPAP60L
UniProt Entry Name	NUP50_HUMAN
NCBI Protein Information	nuclear pore complex protein Nup50
NCBI Summary for NUP50	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. [provided by RefSeq, Jul 2008]
Research Articles on NUP50	**1.** results further highlight the antagonistic relationship between 53BP1 and BRCA1, and place Nup153 and Nup50 in a molecular pathway that regulates 53BP1 function by counteracting BRCA1-mediated events.

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