

NUP214 Rabbit pAb

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Catalog # AP57575

Product Information

Primary Accession	P35658
Reactivity	Human
Predicted	Chimpanzee, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	213620
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NUP214
Epitope Specificity	2-100/2080
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus > nuclear pore complex. Cytoplasmic filaments.
DISEASE	Note=A chromosomal aberration involving NUP214 is found in a subset of acute myeloid leukemia (AML); also known as acute non-lymphocytic leukemia. Translocation t(6;9)(p23;q34) with DEK. It results in the formation of a DEK-CAN fusion gene. Note=A chromosomal aberration involving NUP214 is found in some cases of acute undifferentiated leukemia (AUL). Translocation t(6;9)(q21;q34.1) with SET.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. This gene is a member of the FG-repeat-containing nucleoporins. The protein encoded by this gene is localized to the cytoplasmic face of the nuclear pore complex where it is required for proper cell cycle progression and nucleocytoplasmic transport. The 3' portion of this gene forms a fusion gene with the DEK gene on chromosome 6 in a t(6,9) translocation associated with acute myeloid leukemia and myelodysplastic syndrome. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8021
Other Names	Nuclear pore complex protein Nup214, 214 kDa nucleoporin, Nucleoporin Nup214, Protein CAN, NUP214, CAIN, CAN, KIAA0023
Dilution	ICC/IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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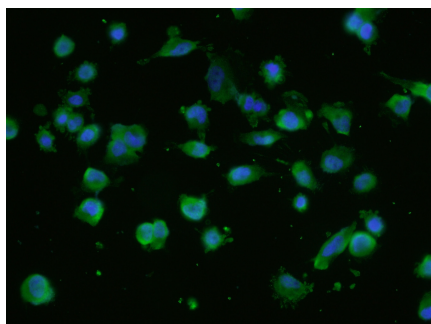
Protein Information

Name	NUP214
Synonyms	CAIN, CAN, KIAA0023
Function	Part of the nuclear pore complex (PubMed: 9049309). Has a critical role in nucleocytoplasmic transport (PubMed: 31178128). May serve as a docking site in the receptor-mediated import of substrates across the nuclear pore complex (PubMed: 31178128 , PubMed: 8108440).
Cellular Location	Nucleus, nuclear pore complex. Note=Cytoplasmic side of the nuclear pore complex.
Tissue Location	Expressed in thymus, spleen, bone marrow, kidney, brain and testis, but hardly in all other tissues or in whole embryos during development

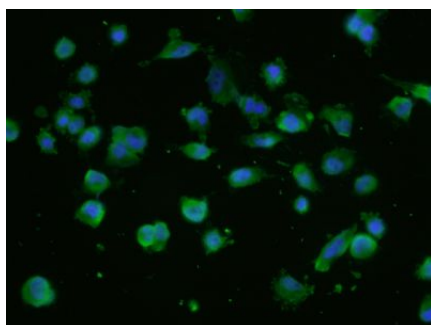
Background

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Images



Tissue/cell: U251 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (NUP214) Polyclonal Antibody, Unconjugated (AP57575) 1:200, 90 minutes at 37°C; followed by a conjugated secondary antibody (AP57575-FITC) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.