

Neugrin Rabbit pAb

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Catalog # AP54670

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9NPE2
Predicted	Rat, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32408
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Neugrin
Epitope Specificity	96-200/291
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. Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Neugrin, also known as NGRN, mesenchymal stem cell protein DSC92, neurite outgrowth-associated protein or spinal cord-derived protein FI58G, is a 291 amino acid protein that plays a role in neuronal differentiation and belongs to the neugrin family. As both a secreted and nuclear protein, neugrin exists as two alternatively spliced isoforms and is highly expressed in skeletal muscle, brain and heart. Neugrin is upregulated in neuroblastostoma cells by retinoic acid treatment and is encoded by a gene that maps to human chromosome 15q26.1. Chromosome 15 houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

Additional Information

Gene ID	51335
Other Names	Neugrin, Mesenchymal stem cell protein DSC92, Neurite outgrowth-associated protein, Spinal cord-derived protein FI58G, NGRN {ECO:0000303 PubMed:27667664, ECO:0000312 HGNC:HGNC:18077}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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.

Protein Information

Name	NGRN {ECO:0000303 PubMed:27667664, ECO:0000312 HGNC:HGNC:18077}
Function	Plays an essential role in mitochondrial ribosome biogenesis. As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPUSD3, RPUSD4, TRUB2, FASTKD2 and 16S mitochondrial ribosomal RNA (16S mt-rRNA), controls 16S mt-rRNA abundance and is required for intra-mitochondrial translation of core subunits of the oxidative phosphorylation system.
Cellular Location	Nucleus. Secreted. Mitochondrion membrane
Tissue Location	Expressed at high levels in heart, brain and skeletal muscle. In brain, mainly expressed in neurons rather than glial cells.

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