

Rabbit Anti-NHEDC2/Biotin Conjugated antibody

SL9712R-Bio

Product Name	Anti-NHEDC2/Biotin
Chinese Name	生物素标记的 Mitochondrion 钠/氢 Exchange protein 质 2 抗体 NHA2; Mitochondrial Na(+)/H(+) exchanger NHA2; Mitochondrial sodium/hydrogen exchanger NHA2; Na(+)/H(+) exchanger like domain containing protein 2; Na+/H+ exchanger domain containing 2; NHE domain containing protein 2; NHE10; NHEDC 2; Sodium/hydrogen exchanger like domain containing protein 2; SL9B2_HUMAN.
Alias	Cell biology Signal transduction Cyclin Cell differentiation Cytoskeleton Extracellular matrix
Research Area	
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Rabbit) WB=1:500-2000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	58kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NHEDC2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: Na+/H+ exchangers (NHEs) catalyze the transport of Na+ in exchange for H+

across membranes in organisms and are required for numerous physiological processes. NHEDC2 (Na⁺/H⁺ exchanger-like domain-containing protein 2), also known as NHA2, is a 537 amino acid mitochondrial protein. NHEDC2 is involved in organelle volume homeostasis by catalyzing the exchange of protons for Na⁺ and Li⁺ across the inner mitochondrial membrane. Found in red blood cells, NHEDC2 is required for bone resorption activity and osteoclast differentiation. As a multi-pass membrane protein, NHEDC2 is expressed as two isoforms produced by alternative splicing events.

Function:

Electroneutral exchange of protons for Na(+) and Li(+)across the inner mitochondrial membrane. Contributes to theorganellar volume homeostasis. Required for osteoclastdifferentiation and bone resorption activity (By similarity).

Subcellular Location:

Mitochondrion membrane; Multi-pass membraneprotein (By similarity).

Tissue Specificity:

Detected in red blood cells (at proteinlevel).

Similarity:

Belongs to the monovalent cation:proton antiporter 1(CPA1) transporter (TC 2.A.36) family.

Database links:

[Entrez Gene: 133308](#) Human

[Entrez Gene: 97086](#) Mouse

[Entrez Gene: 365946](#) Rat

[Omim: 611789](#) Human

[SwissProt: Q86UD5](#) Human

[SwissProt: Q5BKR2](#) Mouse

[Unigene: 546482](#) Human

[Unigene: 441764](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



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