

## Rabbit Anti-NHEDC2/AP Conjugated antibody

SL9712R-AP

<b>Product Name</b>	Anti-NHEDC2/AP
<b>Chinese Name</b>	碱性磷酸酶 (AP) 标记的 Mitochondrion 钠/氢 Exchange protein 质 2 抗体
<b>Alias</b>	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.
<b>Research Area</b>	Cell biology Signal transduction Cyclin Cell differentiation Cytoskeleton Extracellular matrix
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Mouse(predicted:Rat,Dog,Rabbit) WB=1:500-2000
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	58kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human NHEDC2
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	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.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> Na <sup>+</sup> /H <sup>+</sup> exchangers (NHEs) catalyze the transport of Na <sup>+</sup> in exchange for H <sup>+</sup> across membranes in organisms and are required for numerous physiological

processes. NHEDC2 (Na<sup>+</sup>/H<sup>+</sup> 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<sup>+</sup> and Li<sup>+</sup> 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<sup>(+)</sup> and Li<sup>(+)</sup> across the inner mitochondrial membrane. Contributes to the organelle volume homeostasis. Required for osteoclast differentiation and bone resorption activity (By similarity).

**Subcellular Location:**

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

**Tissue Specificity:**

Detected in red blood cells (at protein level).

**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

[Omid: 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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