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# Rabbit Anti-NHEDC2/FITC Conjugated antibody

SL9712R-FITC

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| **Product Name:** | Anti-NHEDC2/FITC |
| **Chinese Name:** | FITC标记的Mitochondrion钠/氢Exchange protein质2抗体 |
| **Alias:** | 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. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Dog,Rabbit, |
| **Applications:** | IF=1:50-200<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 58kDa |
| **Cellular localization:** | The cell membrane |
| **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:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Product Detail:** | **background:**<br>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: 133308Human

Entrez Gene: 97086Mouse

Entrez Gene: 365946Rat

Omim: 611789Human

SwissProt: Q86UD5Human

SwissProt: Q5BKR2Mouse

Unigene: 546482Human

Unigene: 441764Mouse

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