

Anti-NHEDC2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Dog, Rabbit)
Molecular Weight:	Theoretical: 58 kDa. Actual: 53 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Spinal cord (Mouse) Lysate at 40 µg Kidney (Mouse) Lysate at 40 µg Primary: Anti-NHEDC2 (TMAB-09465) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD Observed band size: 53 kD
	2. Sample: Lane 1: HL60 (Human) Cell Lysate at 30 µg Lane 2: Hcclm3 (Human) Cell Lysate at 30 µg Lane 3: Molt-4 (Human) Cell Lysate at 30 µg Lane 4: U937 (Human) Cell Lysate at 30 µg Primary: Anti-NHEDC2 (TMAB-09465) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kD Observed band size: 50 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human NHEDC2
Antigen Species:	Human
Gene ID:	133308
Uniprot ID:	Q86UD5

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481