

KD-Validated Anti-NHERF1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1669

Product Information

Application	WB, FC
Primary Accession	O14745
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1270
Calculated MW	38868
Gene Name	NHERF1
Aliases	NHERF1; NHERF Family PDZ Scaffold Protein 1; NHERF-1; NHERF; EBP50; SLC9A3R1; NHE-RF; Solute Carrier Family 9, Subfamily A (NHE3, Cation Proton Antiporter 3), Member 3 Regulator 1; Na(+)/H(+) Exchange Regulatory Cofactor NHE-RF1; Ezrin-Radixin-Moesin-Binding Phosphoprotein 50; Regulatory Cofactor Of Na(+)/H(+) Exchanger; Na(+)/H(+) Exchange Regulatory Cofactor 1; SLC9A3 Regulator 1; Solute Carrier Family 9 (Sodium/Hydrogen Exchanger), Isoform 3 Regulator 1; Solute Carrier Family 9 (Sodium/Hydrogen Exchanger), Isoform 3 Regulator 1; Solute Carrier Family 9 (Sodium/Hydrogen Exchanger), Member 3 Regulator 1; Solute Carrier Family 9 Isoform A3 Regulator 1; Ezrin-Radixin-Moesin Binding Phosphoprotein-50; Sodium-Hydrogen Exchanger Regulatory Factor 1; Na+/H+ Exchange Regulatory Co-Factor; NPHLOP2
Immunogen	A synthesized peptide derived from human EBP50

Additional Information

Gene ID	9368
Other Names	Na(+)/H(+) exchange regulatory cofactor NHE-RF1, NHERF-1, Ezrin-radixin-moesin-binding phosphoprotein 50, EBP50, Regulatory cofactor of Na(+)/H(+) exchanger, Sodium-hydrogen exchanger regulatory factor 1, Solute carrier family 9 isoform A3 regulatory factor 1, NHERF1 (HGNC:11075), NHERF, SLC9A3R1

Protein Information

Name	NHERF1 (HGNC:11075)
Synonyms	NHERF, SLC9A3R1
Function	Scaffold protein that connects plasma membrane proteins with members of the ezrin/moesin/radixin family and thereby helps to link them to the actin cytoskeleton and to regulate their surface expression. Necessary for recycling of internalized ADRB2. Was first known to play a role in the regulation of the

activity and subcellular location of SLC9A3. Necessary for cAMP-mediated phosphorylation and inhibition of SLC9A3. May enhance Wnt signaling. May participate in HTR4 targeting to microvilli (By similarity). Involved in the regulation of phosphate reabsorption in the renal proximal tubules. Involved in sperm capacitation. May participate in the regulation of the chloride and bicarbonate homeostasis in spermatozoa.

Cellular Location

Cytoplasm. Apical cell membrane. Endomembrane system; Peripheral membrane protein. Cell projection, filopodium. Cell projection, ruffle. Cell projection, microvillus. Note=Translocates from the cytoplasm to the apical cell membrane in a PODXL-dependent manner. Colocalizes with CFTR at the midpiece of sperm tail (By similarity). Colocalizes with actin in microvilli-rich apical regions of the syncytiotrophoblast. Found in microvilli, ruffling membrane and filopodia of HeLa cells. Present in lipid rafts of T-cells.

Tissue Location

Detected in liver, kidney, pancreas, prostate, spleen, small intestine and placenta, in particular in the syncytiotrophoblast.

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