10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NHERF1 Recombinant Rabbit mAb

Catalog # AP100010

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O14745
Other Accession	O14745
Reactivity	Rat, Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	38868
Physical State	Liquid
Immunogen	A synthesized peptide derived from human NHERF 1
Epitope Specificity	51-120
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	9368
Other Names	NHRF1_HUMAN; NHERF1; 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; NHERF; SLC9A3R1; EBP50; NHE-RF; NPHLOP2; NHERF family PDZ scaffold protein 1; solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 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, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1; SLC9A3 regulator 1; ezrin-radixin-moesin-binding phosphoprotein 50; Na(+)/H(+) exchange regulatory cofactor 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1:50-100
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.