

Product Name: KD-Validated NHERF1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00931

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 38.9kDa

Antigen Information

Gene Name	NHERF1
Alternative Names	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 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 Isoform A3 Regulatory Factor 1; Ezrin-Radixin-Moesin Binding Phosphoprotein-50; Sodium-Hydrogen Exchanger Regulatory Factor 1; Na+/H+ Exchange Regulatory Co-Factor; NPHLOP2

Gene ID	9368.0
SwissProt ID	O14745
Immunogen	A synthesized peptide derived from human EBP50

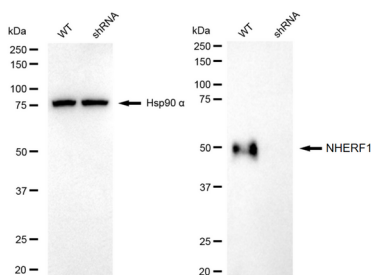
Background

This gene encodes a sodium/hydrogen exchanger regulatory cofactor. The protein interacts with and regulates various proteins including the cystic fibrosis transmembrane conductance regulator and G-protein coupled receptors such as the beta2-adrenergic receptor and the parathyroid hormone 1 receptor. The protein also interacts with proteins that function as linkers between integral membrane and cytoskeletal proteins. The protein localizes to actin-rich structures including membrane ruffles, microvilli, and filopodia. Mutations in this gene result in hypophosphatemic nephrolithiasis/osteoporosis type 2, and loss of heterozygosity of this gene is implicated in breast cancer.[provided by RefSeq, Sep 2009]

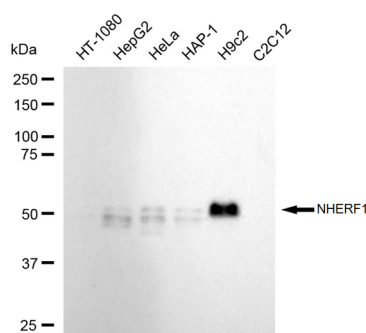
Research Area

Tags & Cell Markers, Signal Transduction, Cancer

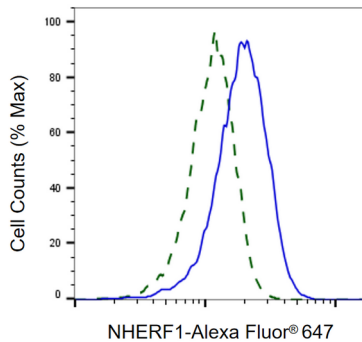
Image Data



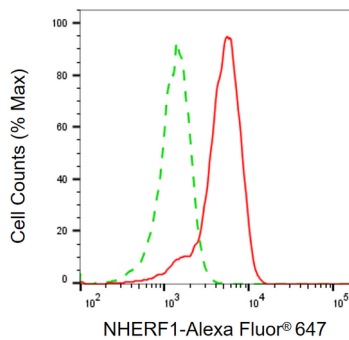
Western blotting analysis using NHERF1 antibody (KVA00931). NHERF1 expression in wild-type (WT) and NHERF1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NHERF1 antibody (KVA00931, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using NHERF1 antibody (KVA00931). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NHERF1 antibody (KVA00931, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of NHERF1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NHERF1 antibody (KVA00931, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NHERF1 expression in H9c2 cells using NHERF1 antibody (KVA00931, 1:2,000). Green, isotype control; red, NHERF1.