

**NHERF1/ EBP50 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10380****Specification**

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**NHERF1/ EBP50 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9JJ19</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38830

**NHERF1/ EBP50 Antibody - Additional Information****Gene ID** 59114

Positive Control	Rat kidney tissue lysate
Application & Usage	Western Blot analysis (1-4 µg/ml).

**Other Names**

Na(+)/H(+) exchange regulatory cofactor NHE-RF1, Ezrin-radixin-moesin-binding phosphoprotein 50, Regulatory cofactor of Na(+)/H(+) exchanger, Sodium-hydrogen exchanger regulatory factor 1, Solute carrier family 9 isoform A3 regulatory factor 1

**Target/Specificity**

NHERF1/ EBP50

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti- NHERF1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

NHERF1/ EBP50 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **NHERF1/ EBP50 Antibody - Protein Information**

**Name** Nherf1

**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. Involved in sperm capacitation. May participate in the regulation of the chloride and bicarbonate homeostasis in spermatozoa. 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 (By similarity).

### **Cellular Location**

Cytoplasm. Apical cell membrane. Cell projection, filopodium. Cell projection, ruffle. Cell projection, microvillus. Endomembrane system; Peripheral membrane protein. Note=Colocalizes with actin in microvilli-rich apical regions of the syncytiotrophoblast. Present in lipid rafts of T- cells. 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).

## **NHERF1/ EBP50 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **NHERF1/ EBP50 Antibody - Images**

## **NHERF1/ EBP50 Antibody - Background**

NHERF regulatory factor 1 (NHERF-1) is a multifunctional adaptor protein that interacts with NHE3 via its PDZ domains. The amino-terminal PDZ domain regulates the dimerization of NHERF-1 in vivo. G protein-coupled receptor kinase 6A phosphorylates NHERF-1 at Ser 289 via a PDZ domain-mediated interaction.