

**NHERF1/ EBP50 Blocking Peptide**  
**Catalog # PBV10211b****Specification**

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**NHERF1/ EBP50 Blocking Peptide - Product Information**

Primary Accession	<a href="#">O9JJ19</a>
Gene ID	<b>59114</b>
Calculated MW	<b>38830</b>

**NHERF1/ EBP50 Blocking Peptide - Additional Information****Gene ID** 59114**Application & Usage**

**The peptide is used for blocking the antibody activity of NHERF1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.**

**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, Slc9a3r1, Nherf, Nherf1

**Target/Specificity**

NHERF1/ EBP50

**Formulation**

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

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

**NHERF1/ EBP50 Blocking Peptide - 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 Blocking Peptide - 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 Blocking Peptide - Images**