

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10)
Mouse Monoclonal Antibody
Catalog # ALS11989**Specification**

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) - Product Information

Application	IHC
Primary Accession	O14745
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	39kDa KDa

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) - 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, SLC9A3R1, NHERF, NHERF1

Target/Specificity

Bacterially produced recombinant full-length human NHERF

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) - 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.

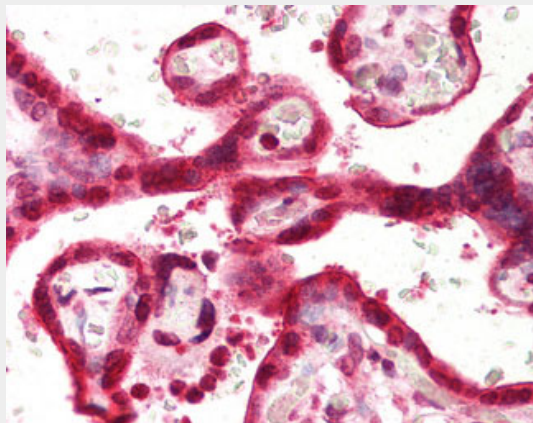
Tissue Location

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

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) - 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](#)

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) - Images

Anti-SLC9A3R1 / NHERF1 antibody IHC of human placenta.

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) - Background

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.

SLC9A3R1 / NHERF1 / EBP50 Antibody (clone EBP-10) - References

Reczek D.,et al.J. Cell Biol. 139:169-179(1997).
Murthy A.,et al.J. Biol. Chem. 273:1273-1276(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.