



Human SLC9A3R1 peptide (DAG-P1523)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Specificity	Detected in liver, kidney, pancreas, prostate, spleen, small intestine and placenta, in particular in the syncytiotrophoblast.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 2 PDZ (DHR) domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SLC9A3R1 solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1 [Homo sapiens (human)]
Official Symbol	SLC9A3R1

Synonyms	SLC9A3R1; solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1; EBP50; NHERF; NHERF1; NHERF-1; NPHLOP2; Na(+)/H(+) exchange regulatory cofactor NHE-RF1; Na+/H+ exchange regulatory co-factor; regulatory cofactor of Na(+)/H(+) exchanger; ezrin-radixin-moesin binding phosphoprotein-50; ezrin-radixin-moesin-binding phosphoprotein 50; solute carrier family 9 isoform A3 regulatory factor 1; solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1;
Entrez Gene ID	9368
mRNA Refseq	NM_004252.4
Protein Refseq	NP_004243.1
UniProt ID	O14745
Chromosome Location	17q25.1
Pathway	PDGFR-beta signaling pathway, organism-specific biosystem; Thromboxane A2 receptor signaling, organism-specific biosystem;
Function	PDZ domain binding; beta-2 adrenergic receptor binding; beta-catenin binding; chloride channel regulator activity; dopamine receptor binding; growth factor receptor binding; phosphatase binding; protein binding; protein complex binding; protein complex sc