

Recombinant Human SLC9A3R1

Cat. No. SLC9A3R1-28223TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human EBP50 with a proprietary tag: predicted molecular weight 65.90 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	358 amino acids
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.
Molecular Weight	65.900kDa inclusive of tags
Tissue specificity	Detected in liver, kidney, pancreas, prostate, spleen, small intestine and placenta, in particular in the syncytiotrophoblast.
Biological activity	Useful for Antibody Production and Protein Array

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSADAAAGAPLPRLCCLEKGPNGYGFHLHGEKGKLGQYIRLVEPGSPA EKAGLLAG DRLVEVNGENVEKETHQQVVSRI RAALNAVRLLVDPETDEQLQKLG VQVREELLR AQEAPGQAEPPAAA EVQGAGNENEPREADKSHPEQREL RPRLCTM KKGPSGYGF NLHSDKSKPGQFIRSVD PDSPAEASGLRAQDRIVEVNGVCMEGKQHGDVVS AIRAG GDETKLLVVDRETDEFFKKCRVIP SQEHLNGPL
Sequence Similarities	Contains 2 PDZ (DHR) domains.

GENE INFORMATION

Gene Name	SLC9A3R1 solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 [Homo sapiens]
Official Symbol	SLC9A3R1
Synonyms	SLC9A3R1; solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1; solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 1 , solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulatory factor 1; Na(+)/H(
Gene ID	9368

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mRNA Refseq	NM_004252
Protein Refseq	NP_004243
MIM	604990
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;

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