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# Product datasheet for TP301653M

## EBP50 (SLC9A3R1) (NM_004252) Human Recombinant Protein

### Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Homo sapiens solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 (SLC9A3R1), 100 µg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC201653 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MSADAAAGAPLPRLCCLEKGPNGYGFHLHGEKGKLGQYIRLVEPGSPAEKAGLLAGDRLVEVNGENVEKE<br>THQQVVSRIRAALNAVRLLVVDPETDEQLQKLGVQVREELLRAQEAPGQAEPPAAAEVQGAGNENEPREA<br>DKSHPEQRELRPRLCTMKKGPSGYGFNLHSDKSKPGQFIRSVDPDSPAEASGLRAQDRIVEVNGVCMEGK<br>QHGDVVSAIRAGGDETKLLVVDRETDEFFKKCRVIPSQEHLNGPLPVPFTNGEIQKENSREALAEAALES<br>PRPALVRSASSDTSEELNSQDSPPKQDSTAPSSTSSSDPILDFNISLAMAKERAHQKRSSKRAPQMDWSK<br>KNELFSNL<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 38.7 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Bioactivity:** | Cell treatment (PMID: 26142394) |
| **Preparation:** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |

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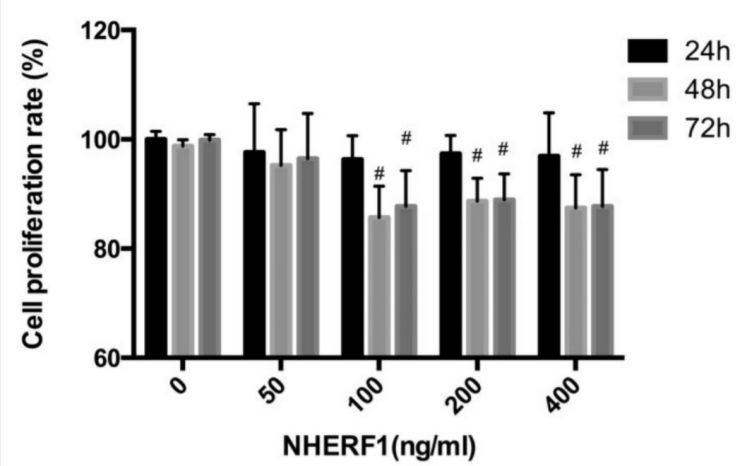
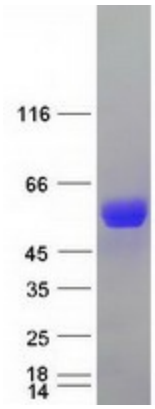
|---|---|
| **RefSeq:** | NP_004243 |
| **Locus ID:** | 9368 |
| **UniProt ID:** | O14745 |
| **RefSeq Size:** | 2032 |
| **Cytogenetics:** | 17q25.1 |
| **RefSeq ORF:** | 1074 |
| **Synonyms:** | EBP50; NHERF; NHERF-1; NHERF1; NPHLOP2 |
| **Summary:** | This gene encodes a sodium/hydrogen exchanger 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] |
| **Protein Families:** | Druggable Genome |

## Product images:




The effect of recombinant human Na+/H+ exchanger regulatory factor 1 (NHERF1) (OriGene [TP301653]) on the proliferation of the human autosomal-dominant polycystic kidney disease cyst-lining epithelial cell line WT9-12. # P < 0.05 vs 0 ng/ml NHERF1. Figure cited from J Int Med Res, PMID: 26142394




Coomassie blue staining of purified SLC9A3R1 protein (Cat# [TP301653]). The protein was produced from HEK293T cells transfected with SLC9A3R1 cDNA clone (Cat# [RC201653]) using MegaTran 2.0 (Cat# [TT210002]).