EBP50 (SLC9A3R1) Recombinant Protein,Human(HEK293,C-His)

Cat. No.:	HY-P701153
Synonyms:	EBP50; NHERF; NHERF-1; NHERF1; NPHLOP2
Species:	Human
Source:	HEK293
Accession:	O14745 (M1-L358)
Gene ID:	9368
Molecular Weight:	Approximately 45-60 kDa

PROPERTIES

AA Sequence	M S A D A A A G A P L P R L C C L E K G P N G Y G F H L H G E K G K L G Q Y I R L V E P G S P A E K A G L L A G D R L V E V N G E N V E K E T H Q Q V V S R I R A A L N A V R L L V V D P E T D E Q L Q K L G V Q V R E E L L R A Q E A P G Q A E P P A A A E V Q G A G N E N E P R E A D K S H P E Q R E L R P R L C T M K K G P S G Y G F N L H S D K S K P G Q F I R S V D P D S P A E A S G L R A Q D R I V E V N G V C M E G K Q H G D V V S A I R A G G D E T K L L V V D R E T D E F F K K C R V I P S Q E H L N G P L P V P F T N G E I Q K E N S R E A L A E A A L E S P R P A L V R S A S S D T S E E L N S Q D S P P K Q D S T A P S S T S S S D P I L D F N I S L A M A K E R A H Q K R S S K R A P Q M D W S K K N E L F S N L
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of 25 mM Tris-HCl, 10% Glycerol, pH 7.3.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	EBP50 serves as a scaffold protein, facilitating the connection between plasma membrane proteins and members of the ezrin/moesin/radixin family, thereby linking them to the actin cytoskeleton and regulating their surface expression. Essential for the recycling of internalized ADRB2, EBP50 plays a crucial role in the regulation of SLC9A3 activity and subcellular localization. It is indispensable for cAMP-mediated phosphorylation and inhibition of SLC9A3 and may

contribute to Wnt signaling and the targeting of HTR4 to microvilli. Furthermore, EBP50 is involved in phosphate reabsorption in renal proximal tubules, sperm capacitation, and the regulation of chloride and bicarbonate homeostasis in spermatozoa. It forms homodimers and heterodimers with NHERF2 and interacts with a diverse array of proteins, including ezrin, radixin, moesin, PDGFRA, PDGFRB, ADRB2, NOS2, CFTR, ARHGAP17, EPI64, RACK1, OPRK1, GNAQ, CTNNB1, PLCB3, and PDZK1. Additionally, EBP50 participates in complexes with CLCN3, PAG1, CFTR, SLC4A7, ATP6V1B1, TRPC4, HTR4, PODXL, SLC26A3, MCC, SLC34A1, SLC26A6, and ACE2, highlighting its diverse roles in cellular processes and signaling pathways.

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