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Product datasheet for SM3048P

EBP50 (SLC9A3R1) Mouse Monoclonal Antibody [Clone ID: EBP10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EBP10
Applications:	IHC, IP, WB
Recommended Dilution:	<u>Immunoprecipitation.</u> <u>Western Blotting:</u> 2 μg/ml, reducing conditions, positive control: MCF-7 cell line <u>Immunohistochemistry (paraffin sections):</u> 5 μg/ml.
Reactivity:	Human
Host:	Mouse
lsotype:	lgG2b
Clonality:	Monoclonal
Immunogen:	Bacterially produced recombinant full-length human NHERF.
Specificity:	The antibody reacts with NHERF1/EBP50 phosphoprotein of 50 kDa, which serves as an adaptor and regulator protein.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid purified Ig fraction (>95% pure by SDS-PAGE).
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	SLC9A3 regulator 1
Database Link:	<u>Entrez Gene 9368 Human</u> <u>O14745</u>



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	EBP50 (SLC9A3R1) Mouse Monoclonal Antibody [Clone ID: EBP10] – SM3048P
Background:	NHERF1 (Na+/H+ exchanger regulatory factor 1), also known as EBP50 (ezrin, radixin, moesin- binding phosphoprotein 50) is an adaptor protein, which associates with beta-catenin and is required for its localization at the cell-cell junctions, interacts with various G protein-coupled receptors and regulates their traffic, as well as sodium-hydrogen exchange and sodium- dependent phosphate transport. NHERF1/EBP50 inhibits cell motility and is required to suppress anchorage-independent growth. It contains C-terminal ERM (ezrin, radixin, moesin)- binding region and two N-terminal PDZ (postsynaptic-density-95/disc-large/ZO1 homology) domains and is able to form head-to-tail intramolecular conformation to regulate its interactions.
Synonyms:	EBP50, NHERF-1, NPHLOP2
Note:	 Protocol: 1. Brdickova N, Brdicka T, Andera L, Spicka J, Angelisova P, Milgram SL, Horejsi V.: Interaction between two adapter proteins, PAG and EBP50: a possible link between membrane rafts and actin cytoskeleton. FEBS Lett. 2001 Oct 26;507 (2):133-6. 2. Lederer ED, Khundmiri SJ, Weinman E.J.: Role of NHERF-1 in regulation of the activity of Na- K ATPase and sodium-phosphate co-transport in epithelial cells. J Am Soc Nephrol. 2003 Jul;14(7):1711-9. 3. Weinman EJ, Cunningham R, Wade JB, Shenolikar S.: The role of NHERF-1 in the regulation of renal proximal tubule sodium-hydrogen exchanger 3 and sodium-dependent phosphate cotransporter 2a. J Physiol. 2005 Aug 15;567(Pt 1):27-32. 4. Wheeler D, Sneddon WB, Wang B, Friedman PA, Romero G.: NHERF-1 and the cytoskeleton regulate the traffic and membrane dynamics of G protein-coupled receptors. J Biol Chem. 2007 Aug 24;282(34):25076-87. 5. Morales FC, Takahashi Y, Momin S, Adams H, Chen X, Georgescu M.M.: NHERF1/EBP50 head-to-tail intramolecular interaction masks association with PDZ domain ligands. Mol Cell Biol. 2007 Apr;27(7):2527-37. 6. Kreimann EL, Morales FC, de Orbeta-Cruz J, Takahashi Y, Adams H, Liu TJ, McCrea PD, Georgescu M.M.: Cortical stabilization of beta-catenin contributes to HERF1/EBP50 tumor suppressor function. Oncogene. 2007 Aug 9;26(36):5290-9.

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