

#9568 Store at -20°C

## NHERF2 (D3A5) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	46	Rabbit IgG	#Q15599	9351

### Product Usage Information

#### Application

 Western Blotting  
Immunoprecipitation

#### Dilution

 1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

NHERF2 (D3A5) Rabbit mAb recognizes endogenous levels of total NHERF2 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NHERF2 protein.

### Background

Na<sup>+</sup>/H<sup>+</sup> exchanger regulatory factor 2 (NHERF2) is one of four proteins in the NHERF protein family. It is closely related to NHERF1 and, like NHERF1, contains two PDZ domains and a C-terminal ezrin/radixin/moesin (ERM) binding domain (EBD). Along with the other members of this protein family, NHERF2 is abundantly present in the mammalian small intestine and colon where it plays a central role in trafficking, membrane retention, dimerization, and regulation of ion channels and membrane proteins (1). NHERF2 is a scaffolding protein that recruits membrane proteins to the apical membrane by tethering them to the apical cytoskeleton via its ERM domain (2). It has been shown that the NHERF proteins bind to the Na<sup>+</sup>/H<sup>+</sup> exchanger 3 (NHE3) in the brush border of intestinal epithelial cells. NHE3 accounts for the majority of neutral NaCl absorption and NHERF proteins play an essential role in NHE3 regulation (3).

### Background References

- Martinez, E. et al. (2010) *Cell Microbiol* 12, 1718-31.
- Enyedi, A. and Strehler, E.E. (2011) *Commun Integr Biol* 4, 340-3.
- Sarker, R. et al. (2011) *Am J Physiol Cell Physiol* 300, C771-82.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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