

SLC9A1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SLC9A1. Catalog # AT3932a

Specification

SLC9A1 Antibody (monoclonal) (M01) - Product Information

Application WB, IHC, E **Primary Accession** P19634 Other Accession BC012121 Reactivity Human Host mouse Clonality **Monoclonal** Isotype IgG1 Kappa Calculated MW 90763

SLC9A1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 6548

Other Names

Sodium/hydrogen exchanger 1, APNH, Na(+)/H(+) antiporter, amiloride-sensitive, Na(+)/H(+) exchanger 1, NHE-1, Solute carrier family 9 member 1, SLC9A1, APNH1, NHE1

Target/Specificity

SLC9A1 (AAH12121, 31 a.a. \sim 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

SLC9A1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC9A1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

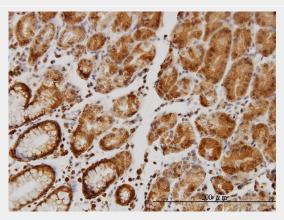


- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

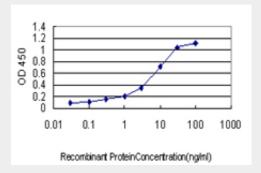
SLC9A1 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.41 KDa).



Immunoperoxidase of monoclonal antibody to SLC9A1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged SLC9A1 is approximately 0.3ng/ml as a capture antibody.

SLC9A1 Antibody (monoclonal) (M01) - Background





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The Na+/H+ antiporter (SLC9A1) is a ubiquitous membrane-bound enzyme involved in pH regulation of vertebrate cells. It is specifically inhibited by the diuretic drug amiloride and activated by a variety of signals including growth factors, mitogens, neurotransmitters, tumor promoters, and others (Mattei et al., 1988 [PubMed 2846238]).

SLC9A1 Antibody (monoclonal) (M01) - References

Upregulation of Na+/H+ exchanger by the AMP-activated protein kinase. Rotte A, et al. Biochem Biophys Res Commun, 2010 Aug 6. PMID 20609358.NBCn1 and NHE1 expression and activity in DeltaNErbB2 receptor-expressing MCF-7 breast cancer cells: contributions to pHi regulation and chemotherapy resistance. Lauritzen G, et al. Exp Cell Res, 2010 Sep 10. PMID 20542029. Quabain stimulates Na-K-ATPase through a sodium/hydrogen exchanger-1 (NHE-1)-dependent mechanism in human kidney proximal tubule cells. Holthouser KA, et al. Am J Physiol Renal Physiol, 2010 Jul. PMID 20427472.Inhibition of Na(+)/H(+) exchanger 1 by 5-(N-ethyl-N-isopropyl) amiloride reduces hypoxia-induced hepatocellular carcinoma invasion and motility. Yang X, et al. Cancer Lett, 2010 Sep 28. PMID 20338684. Activation of Na+/H+ exchanger 1 by neurotensin signaling in pancreatic cancer cell lines. Olszewski U, et al. Biochem Biophys Res Commun, 2010 Mar 12. PMID 20138826.