ARG57014
anti-PDZK1 antibody [1A2]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1A2] recognizes PDZK1
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	1A2
Isotype	IgG2b, kappa
Target Name	PDZK1
Species	Human
Immunogen	Recombinant fragment around aa. 1-519 of Human PDZK1.
Conjugation	Un-conjugated
Alternate Names	CAP70; CLAMP; PDZD1; NHERF3; NHERF-3; Na(+)/H(+) exchange regulatory cofactor NHE-RF3; NHERF-3; CFTR-associated protein of 70 kDa; Na(+)/H(+) exchanger regulatory factor 3; Na/Pi cotransporter C-terminal-associated protein 1; NaPi-Cap1; PDZ domain-containing protein 1; Sodium-hydrogen exchanger regulatory factor 3

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
WB	1:1000

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

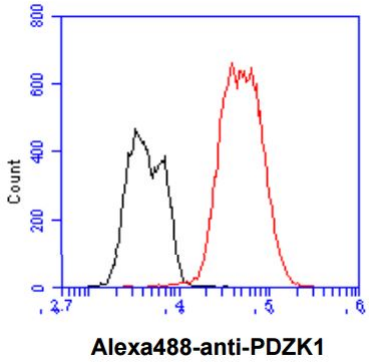
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

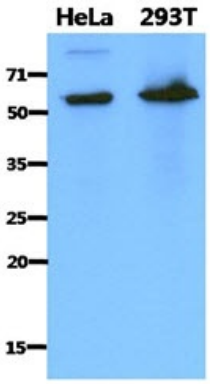
Database links	GeneID: 5174 Human Swiss-port # Q5T2W1 Human
Gene Symbol	PDZK1
Gene Full Name	PDZ domain containing 1
Background	This gene encodes a PDZ domain-containing scaffolding protein. PDZ domain-containing molecules bind to and mediate the subcellular localization of target proteins. The encoded protein mediates the localization of cell surface proteins and plays a critical role in cholesterol metabolism by regulating the HDL receptor, scavenger receptor class B type 1. Single nucleotide polymorphisms in this gene may be associated with metabolic syndrome, and overexpression of this gene may play a role in drug resistance of multiple myeloma. Pseudogenes of this gene are located on the long arm of chromosome 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]
Function	A scaffold protein that connects plasma membrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. May be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated membrane proteins. May play a role in the cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. May potentiate the CFTR chloride channel activity. Required for normal cell-surface expression of SCARB1. Plays a role in maintaining normal plasma cholesterol levels via its effects on SCARB1. Plays a role in the normal localization and function of the chloride-anion exchanger SLC26A6 to the plasma membrane in the brush border of the proximal tubule of the kidney. May be involved in the regulation of proximal tubular Na(+)-dependent inorganic phosphate cotransport therefore playing an important role in tubule function (By similarity). [UniProt]
Calculated Mw	57 kDa

Images



ARG57014 anti-PDZK1 antibody [1A2] FACS image

Flow Cytometry: Hep3B cell line stained with ARG57014 anti-PDZK1 antibody [1A2] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG57014 anti-PDZK1 antibody [1A2] WB image

Western blot: 40 µg of HeLa and 293T cell lysate stained with ARG57014 anti-PDZK1 antibody [1A2] at 1:1000.