

ARG45938 anti-PDZK1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PDZK1
Tested Reactivity	Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PDZK1
Species	Mouse
Immunogen	Recombinant protein containing to mouse PDZK1.
Conjugation	Un-conjugated
Alternate Names	PDZK1; PDZ Domain Containing 1; 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	1 - 3 µg/10 ⁶ cells
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	70 kDa	

Properties

Form	Liquid
Purification	Affinity chromatography purified
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 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 -22°C or below. 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.

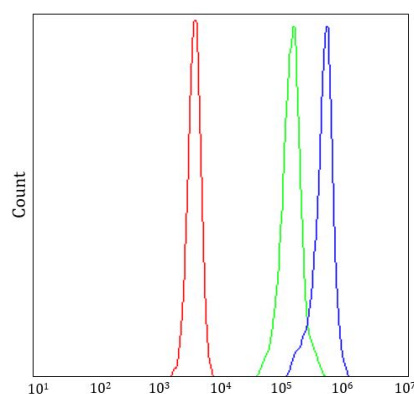
Note

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

Bioinformation

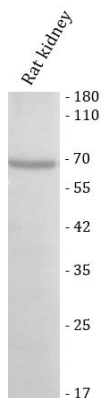
Gene Symbol	PDZK1
Gene Full Name	PDZ Domain Containing 1
Background	This gene encodes a PDZ domain-containing scaffolding protein. PDZ domain-containing molecules bind to and mediate the subcellular localization of target proteins. The encoded protein mediates the localization of cell surface proteins 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
PTM	Phosphoprotein. [UniProt]
Cellular Localization	Cell membrane; Membrane. [UniProt]

Images



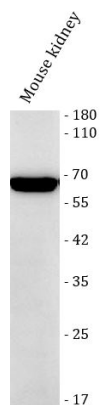
ARG45938 anti-PDZK1 antibody FACS image

Flow Cytometry: RM-1 stained with ARG45938 anti-PDZK1 antibody at 1 µg/10⁶ cells dilution.



ARG45938 anti-PDZK1 antibody WB image

Western blot: Rat kidney stained with ARG45938 anti-PDZK1 antibody at 0.5 µg/ml dilution.



ARG45938 anti-PDZK1 antibody WB image

Western blot: Mouse kidney stained with ARG45938 anti-PDZK1 antibody at 0.5 µg/ml dilution.