

ARG55557 anti-ATP1B2 / Na⁺ K⁺ ATPase beta 2 antibody

Package: 100 µl

Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATP1B2 / Na ⁺ K ⁺ ATPase beta 2
Tested Reactivity	Hu, Ms
Predict Reactivity	Bov, Rb
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATP1B2 / Na ⁺ K ⁺ ATPase beta 2
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 115-141 (Center) of Human Na ⁺ K ⁺ ATPase beta 2.
Conjugation	Un-conjugated
Alternate Names	Sodium/potassium-dependent ATPase subunit beta-2; Sodium/potassium-transporting ATPase subunit beta-2; AMOG; Adhesion molecule in glia; adhesion molecule on glia; AT1B2; ATPB2; ATPB2S; Na ⁺ K ⁺ ATPase beta 2; Na K ATPase beta 2; sodium potassium ATPase beta 2; ATPase Na ⁺ K ⁺ beta 2; ATPase Na K beta 2; ATPase sodium potassium beta 2

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	IHC-P	1:50 - 1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human brain	

Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
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 or below. Storage in frost free freezers is not recommended. Avoid repeated

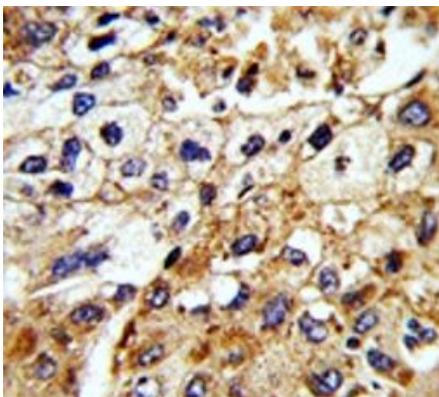
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

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

Bioinformation

Database links	GeneID: 11932 Mouse GeneID: 482 Human Swiss-port # P14231 Mouse Swiss-port # P14415 Human
Gene Symbol	ATP1B2
Gene Full Name	ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide
Background	The protein encoded by this gene belongs to the family of Na ⁺ /K ⁺ and H ⁺ /K ⁺ ATPases beta chain proteins, and to the subfamily of Na ⁺ /K ⁺ -ATPases. Na ⁺ /K ⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na ⁺ /K ⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]
Function	This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The exact function of the beta-2 subunit is not known. Mediates cell adhesion of neurons and astrocytes, and promotes neurite outgrowth. [UniProt]
Research Area	Signaling Transduction antibody
Calculated Mw	33 kDa
Cellular Localization	Cell membrane; Single-pass type II membrane protein

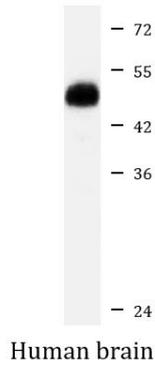
Images



ARG55557 anti-ATP1B2 / Na⁺ K⁺ ATPase beta 2 antibody IHC-P image

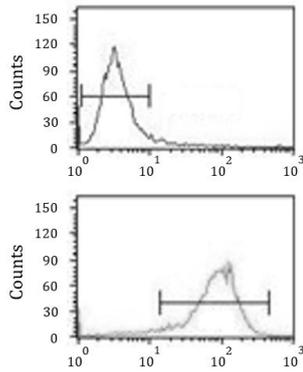
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocarcinoma stained with ARG55557 anti-ATP1B2 / Na⁺ K⁺ ATPase beta 2 antibody.

ARG55557 anti-ATP1B2 / Na+ K+ ATPase beta 2 antibody WB image



Western blot: Human brain lysate stained with ARG55557 anti-ATP1B2 / Na+ K+ ATPase beta 2 antibody at 1:1000 dilution.

ARG55557 anti-ATP1B2 / Na+ K+ ATPase beta 2 antibody FACS image



Flow Cytometry: K562 cells stained with ARG55557 anti-ATP1B2 / Na+ K+ ATPase beta 2 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.