

ATP1B2

Cat.No. 407 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 up to 1 : 5000 (AP-staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 267 to 280 from mouse ATP1B2 (UniProt Id: P14231)
Reactivity	Reacts with: rat (P13638), mouse (P14231). Other species not tested yet.
Specificity	Specific for ATP1B2
matching control	407-0P

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

ATP1B2 is the non-catalytic component of the sodium/potassium-transporting ATPase which catalyzes the hydrolysis of ATP coupled with the exchange of Na⁺ and K⁺ ions across the plasma membrane. The exact function of the β-2 subunit is not known. It has been shown to mediate cell adhesion of neurons and astrocytes, and to promote neurite outgrowth.

Selected General References

Hippocampal levels and activity of the sodium/potassium transporting ATPase subunit α-3 (AT1A3) are paralleling memory training in the multiple T-maze in the C57BL/6J mouse.

Heo S, Cszaszar E, Jung G, Beuk T, Höger H, Lubec G
Neurochemistry international (2012) 61(5): 702-12.

An immunoaffinity-based method for isolating ultrapure adult astrocytes based on ATP1B2 targeting by the ACSA-2 antibody. Batiuk MY, de Vin F, Duqué SI, Li C, Saito T, Saido T, Fiers M, Belgard TG, Holt MG
The Journal of biological chemistry (2017) 292(21): 8874-8891.

A SINE Insertion in ATP1B2 in Belgian Shepherd Dogs Affected by Spongy Degeneration with Cerebellar Ataxia (SDCA2). Mauri N, Kleiter M, Dietschi E, Leschnik M, Högl S, Wiedmer M, Dietrich J, Henke D, Steffen F, Schuller S, Gurtner C, et al. G3 (Bethesda, Md.) (2017) 7(8): 2729-2737.