

Product Name: KD-Validated ATP1B3 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01182

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 31.5kDa

Antigen Information

Gene Name	ATP1B3 ATP1B3; ATPase Na ⁺ /K ⁺ Transporting Subunit Beta 3; Sodium/Potassium-Transporting ATPase Subunit Beta-3; CD298; Sodium-Potassium ATPase Subunit Beta 3 (Non-Catalytic);
Alternative Names	Sodium/Potassium-Dependent ATPase Subunit Beta-3; ATPase, Na ⁺ /K ⁺ Transporting, Beta 3 Polypeptide; Sodium Pump Subunit Beta-3; FLJ29027; ATPB-3; Sodium/Potassium-Transporting ATPase Beta-3 Chain; Na, K-ATPase Beta-3 Polypeptide; CD298 Antigen
Gene ID	483.0
SwissProt ID	P54709
Immunogen	A synthesized peptide derived from human ATP1B3

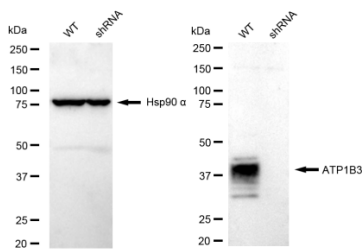
Background

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 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq, Jul 2008]

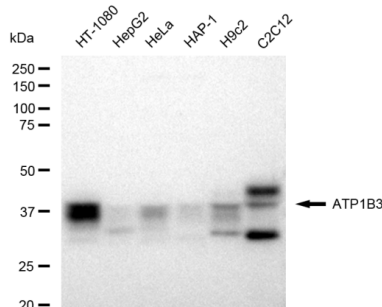
Research Area

Signal Transduction

Image Data



Western blotting analysis using ATP1B3 antibody (KVA01182). ATP1B3 expression in wild type (WT) and ATP1B3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ATP1B3 antibody (KVA01182, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ATP1B3 antibody (KVA01182). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ATP1B3 antibody (KVA01182, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.