Datasheet for ABIN1724719

anti-ATP2C1 antibody

3 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	ATP2C1
Reactivity:	Human, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ATP2C1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Purified recombinant fragment of ATP2C1 expressed in E. coli.
Clone:	4G12
Isotype:	IgG1
Purification:	purified

Target Details

Target:	ATP2C1
Alternative Name:	ATP2C1 (ATP2C1 Products)
Background:	Description: ATP2C1, also known as PMR1, it belongs to the family of P-type cation transport ATPases. This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of the calcium. The human homologue, ATP2C1 (also designated SPLA in rat), also regulates the transport of calcium in the Golgi complex and is related to other P-type ATPases

Target Details

	family members, such as the sarco(endo)plasmic calcium ATPase (SERCA) and the plasma membrane calcium ATPase (PCMA). ATP2C1 is a transmembrane protein that exists as two splice variants, which vary by 20 amino acids. Defects in ATP2C1 cause Hailey-Hailey disease, which is an autosomal dominant disorder that is characterized by blisters and erosions of the skin. These findings provide further evidence that PMR1 plays a key role in maintaining the integrity of the epidermis by controlling intracellular calcium signaling. Aliases: HHD, BCPM, PMR1, SPCA1
Molecular Weight:	100 kDa
Gene ID:	27032
HGNC:	27032
Pathways:	Transition Metal Ion Homeostasis, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

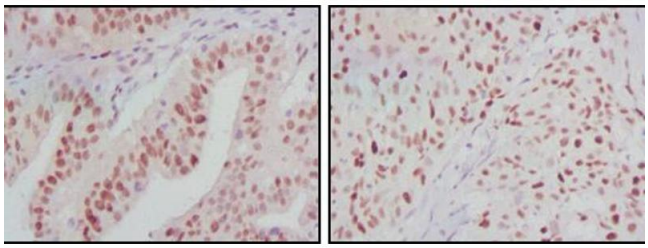
Publications

Product cited in:	Zuhlke, Johnson, Okoth, Stoffel, Robbins, Tembe, Salinas, Zheng, Xu, Carpten, Lange, Isaacs, Cooney: "Identification of a novel NBN truncating mutation in a family with hereditary prostate cancer." in: **Familial cancer**, Vol. 11, Issue 4, pp. 595-600, (2012) (PubMed). Zheng, Zhang, Jiang, You, Liu, Lu, Zhou: "Functional NBS1 polymorphism is associated with

Publications

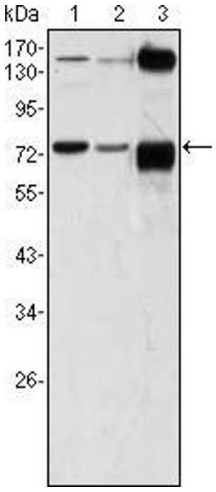
occurrence and advanced disease status of nasopharyngeal carcinoma." in: **Molecular carcinogenesis**, Vol. 50, Issue 9, pp. 689-96, (2011) (PubMed).

Images



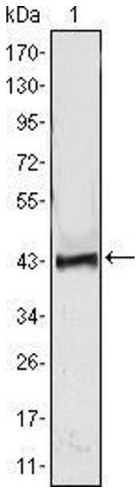
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human ovarian cancer (left) and breast cancer (right) tissues using ATP2C1 mouse mAb with DAB staining.



Western Blotting

Image 2. Western blot analysis using ATP2C1 mouse mAb against A431 (1), Hela (2) and HEK293 (3) cell lysate.



Western Blotting

Image 3. Western blot analysis using ATP2C1 mAb against human ATP2C1 (AA: 119-269) recombinant protein. (Expected MW is 41.7 kDa)