

Mouse anti-Human Na⁺/K⁺ ATPase beta3 Monoclonal Antibody | anti-ATP1B3 antibody

Na⁺/K⁺ ATPase beta3 (Extracellular) M016 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71671	Mouse	Human	Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot

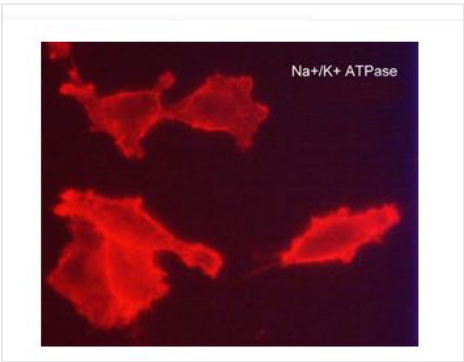
PRODUCT SYNONYMS

Na⁺/K⁺ ATPase beta3; Monoclonal Antibody; Na⁺/K⁺ ATPase beta3 (Extracellular) M016 Antibody; Na⁺/K⁺ ATPase beta3 (Extracellular); Na⁺/K⁺ ATPase beta3 M016; anti-ATP1B3 antibody

PRODUCT SPECIFICATIONS

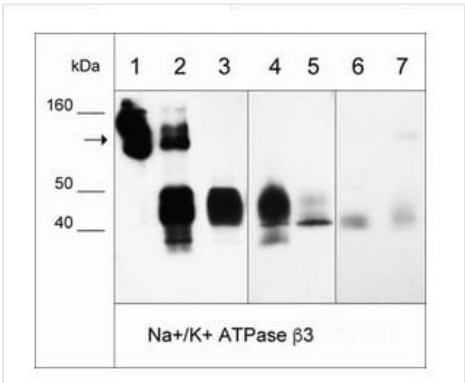
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M016
Specificity	Clone M016 mouse monoclonal antibody detects a 40kDa* protein on SDS-PAGE "Native" immunoblots of human A431, LNCaP, MeWo, MDA-MB-231, and MCF7 cells. This antibody does not detect denatured Na ⁺ /K ⁺ ATPase beta3 subunit. In addition, mass spectrometry analysis of immunoprecipitates usingnM0161 in human A431 cell lysates confirms that this antibody only detects Na ⁺ /K ⁺ ATPase beta3 protein. The antibody works for western blot, immunoprecipitation, ELISA, and immunocytochemistry, as well as detects the beta3 subunit on live cells.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-ATP1B3 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone (M016) was generated from a proprietary antigen related to the native human Na ⁺ /K ⁺ ATPase beta3 subunit expressed in A431 epidermoid carcinoma cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of Na⁺/K⁺ ATPase beta3 in paraformaldehyde fixed human MDA-MB-231 cells. The cells were labeled with mouse monoclonal anti-Na⁺/K⁺ ATPase beta3 (clone M016). The antibody was detected using goat anti-mouse Ig DyLight 594.



WB (Western Blot)

Western blot of M0161 immunoprecipitates (IP) and whole lysates. Then M0161 antibody only (lane 1), IP from A431 cell lysate (lane 2), A431 cell input (lane 3), LNCaP cells (lane 4), MeWo cells (lane 5), and normal human lung (lane 6) and skin (lane 7). The blot was probed with anti-Na⁺/K⁺ ATPase beta3nM0161 (lanes 1-7). The arrow designates native antibody, while the beta3 subunit migrates around 40kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP1B3 antibody	The Na ⁺ /K ⁺ ATPase is an integral membrane heterodimer belonging to the P-type ATPase family. This ion channel uses the energy derived from ATP hydrolysis to maintain membrane potential by driving Na ⁺ export and K ⁺ import across the plasma membrane. It is composed of a large catalytic alpha subunit and a membrane-spanning auxiliary beta subunit. In humans, the Na ⁺ /K ⁺ ATPase is a binary complex of an alpha subunit that has four isoforms (alpha1-alpha4) and a beta-subunit that has three isoforms (beta1, beta2, beta3). Na ⁺ /K ⁺ ATPase subunit expression has been shown to be upregulated in cancers, and inhibition of Na ⁺ /K ⁺ ATPase activity has anti-cancer effects. The beta3 subunit of Na ⁺ /K ⁺ ATPase has increased expression in human gastric cancer tissues and cell lines, and its increased expression level predicts poor patient outcome. beta3 subunit knockdown significantly inhibited cell proliferation, colony-formation ability, migration, and invasion in human gastric carcinoma cell lines.
References	Clausen, MV et al. (2017) Front Physiol. 8:371. Li, L et al. (2017) Oncotarget. 8(48):84285. Yoshimura, SH et al. (2008) J Cell Sci. 121:2159.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502281
NCBI GeneID	483
NCBI Accession #	NP_001670.1
NCBI GenBank Nucleotide #	NM_001679.2
UniProt Accession #	P54709
Molecular Weight	31,513 Da
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit beta-3
NCBI Official Synonym Full Names	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide
NCBI Official Symbol	ATP1B3
NCBI Official Synonym Symbols	CD298; ATPB-3
NCBI Protein Information	sodium/potassium-transporting ATPase subunit beta-3; sodium pump subunit beta-3; Na, K-ATPase beta-3 polypeptide; sodium/potassium-dependent ATPase beta-3 subunit; sodium/potassium-dependent ATPase subunit beta-3; sodium/potassium-transporting ATPase beta
UniProt Protein Name	Sodium/potassium-transporting ATPase subunit beta-3

UniProt Gene Name	ATP1B3
UniProt Synonym Gene Names	ATPB-3
UniProt Entry Name	AT1B3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/na-k-atpase-beta3-antibody-clone-m016-immunoprecipitation-immunocytochemistry-western-blot-elisa/71671>