

Product datasheet for **TA389164**

ATP1B3 Mouse Antibody [Clone ID: M016]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M016
Applications:	ICC, IP, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M016) was generated from a proprietary antigen related to the native human Na ⁺ /K ⁺ ATPase β3 subunit expressed in A431 epidermoid carcinoma cell line.
Specificity:	Clone M016 mouse monoclonal antibody detects a 40 kDa* 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 β3 subunit. In addition, mass spectrometry analysis of immunoprecipitates using NM0161 in human A431 cell lysates confirms that this antibody only detects Na ⁺ /K ⁺ ATPase β3 protein. The antibody works for western blot, immunoprecipitation, ELISA, and immunocytochemistry, as well as detects the β3 subunit on live cells.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	40
Database Link:	P54709



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Background:

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 α subunit and a membrane-spanning auxiliary β subunit. In humans, the Na⁺/K⁺ ATPase is a binary complex of an α subunit that has four isoforms (α 1- α 4) and a β -subunit that has three isoforms (β 1, β 2, β 3). 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 β 3 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. β 3 subunit knockdown significantly inhibited cell proliferation, colony-formation ability, migration, and invasion in human gastric carcinoma cell lines.

Note:

Protein G purified tissue culture supernatant.