



AT2A3 mouse mAb

Catalog No	YP-mAb-08569
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ATP2A3
Immunogen	Synthesized peptide derived from human AT2A3 AA range: 472-522
Specificity	This antibody detects endogenous levels of AT2A3 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Adenosine triphosphatase calcium;AT2A3_HUMAN;Atp2a3;ATPase Ca(2+) transporting ubiquitous;ATPase Ca++ transporting ubiquitous;Calcium pump 3; Calcium translocating P type ATPase;Sarco/endoplasmic reticulum Ca2+ ATPase;Sarcoplasmic/endoplasmic reticulum calcium ATPase 3;SERCA 3; SERCA3;SERCA3b;SR Ca(2+) ATPase 3;SR Ca(2+)-ATPase 3;AT2A3
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus membrane ; Multi-pass membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Sarcoplasmic reticulum membrane ; Multi-pass membrane protein .
Tissue Specificity	Found in most tissues. Most abundant in thymus, trachea, salivary gland, spleen, bone marrow, lymph node, peripheral leukocytes, pancreas and colon. Also detected in fetal tissues. Expressed in cell lineages of hematopoietic, epithelial, or embryonic origin and also expressed in several cancer cell lines.
Function	alternative products:The same names have been attributed to different isoforms, catalytic activity:ATP + H(2)O + Ca(2+)(Cis) = ADP + phosphate + Ca(2+)(Trans) .,function:This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium. Transports calcium ions from the cytosol



into the sarcoplasmic/endoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.,similarity:Belongs to the cation transport ATPase (P-type) family. Type IIA subfamily.,tissue specificity:Found in most tissues. Most abundant in thymus, trachea, salivary gland, spleen, bone marrow, lymph node, peripheral leukocytes, pancreas and colon. Also detected in fetal tissues.,

Background

This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in calcium sequestration associated with muscular excitation and contraction. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008],

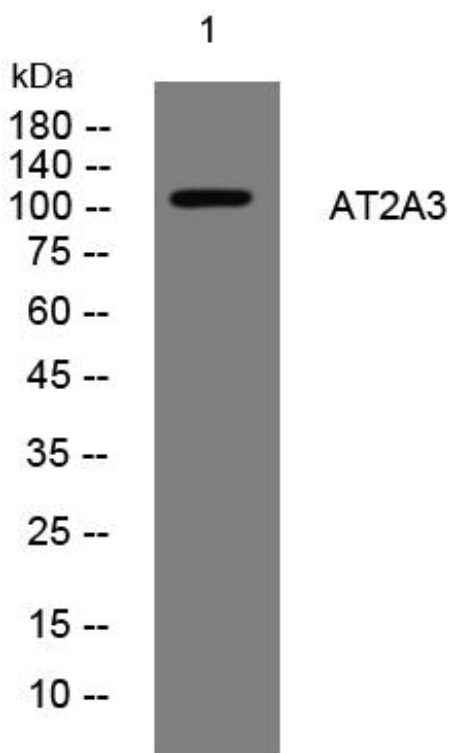
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using AT2A3 mouse mAb