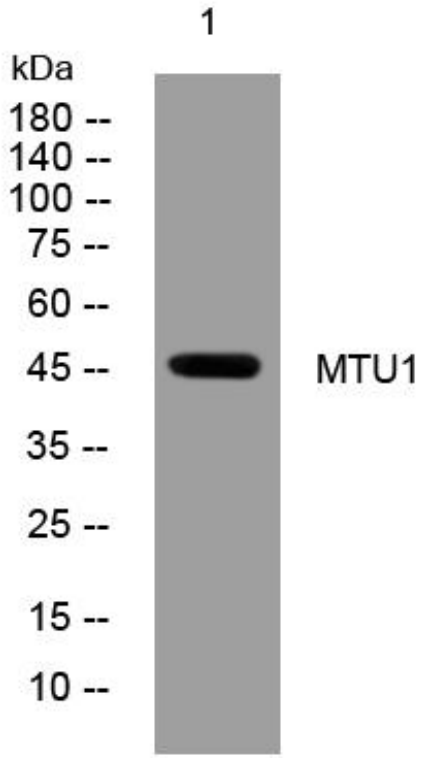
MTU1 mouse mAb

Catalog No	BYmab-08426
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	TRMU MTU1 TRMT1
Protein Name	MTU1
Immunogen	Synthesized peptide derived from human MTU1 AA range: 368-418
Specificity	This antibody detects endogenous levels of MTU1 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 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	Mitochondrion .
Tissue Specificity	Ubiquitous. Abundantly expressed in tissues with high metabolic rates including heart, liver, kidney, and brain.
Function	caution:Was originally (PubMed:16513084) thought to be a 5-methylaminomethyl-2-methyltransferase involved in tRNA modification.,function:Catalyzes the 2-thiolation of uridine at the wobble position (U34) of mitochondrial tRNA(Lys), tRNA(Glu) and tRNA(Gln). Required for the formation of 5-taurinomethyl-2-thiouridine (tm5s2U) of mitochondrial tRNA(Lys), tRNA(Glu), and tRNA(Gln) at the wobble position. ATP is required to activate the C2 atom of the wobble base.,miscellaneous:During the reaction, ATP is used to activate the C2 atom of U34 by adenylation. After this, the persulfide sulfur on the catalytic cysteine is transferred to the C2 atom of the wobble base (U34) of mitochondrial tRNA(Lys), tRNA(Glu) and tRNA(Gln). The reaction probably involves hydrogen sulfide that is generated from the persulfide intermediate and that acts as nucleophile towards the activated C2 atom on U34. Subsequen

Background	This nuclear gene encodes a mitochondrial tRNA-modifying enzyme. The encoded protein catalyzes the 2-thiolation of uridine on the wobble positions of tRNA(Lys), tRNA(Glu), and tRNA(Gln), resulting in the formation of 5-taurinomethyl-2-thiouridine moieties. Mutations in this gene may cause transient infantile liver failure. Polymorphisms in this gene may also influence the severity of deafness caused by mitochondrial 12S ribosomal RNA mutations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013],
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 MTU1 mouse mAb