Datasheet for ABIN3042884

anti-TAZ antibody (Middle Region)

1 Image

Go to Product page

Overview

Quantity:	100 µg
Target:	TAZ
Binding Specificity:	AA 162-178, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TAZ antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Tafazzin/TAZ Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Tafazzin, identical to the related mouse and rat sequences.
Sequence:	MDFILEKLNH GDWVHIF
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Tafazzin/TAZ Antibody (ABIN3042884). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	TAZ
Alternative Name:	TAZ (TAZ Products)
Background:	Synonyms: Tafazzin,Protein G4.5,TAZ,EFE2, G4.5, Tissue Specificity: High levels in cardiac and skeletal muscle. Up to 10 isoforms can be present in different amounts in different tissues. Most isoforms are ubiquitous. Isoforms that lack the N- terminus are found in leukocytes and fibroblasts, but not in heart and skeletal muscle. Some forms appear restricted to cardiac and skeletal muscle or to leukocytes. Background: Tafazzin?is a?protein?that in humans is encoded by the?TAFAZZIN?gene. This gene encodes a protein that is expressed at high levels in cardiac and skeletal muscle. Mutations in this gene have been associated with a number of clinical disorders including Barth syndrome, dilated cardiomyopathy (DCM), hypertrophic DCM, endocardial fibroelastosis, and left ventricular noncompaction (LVNC). Multiple transcript variants encoding different isoforms have been described. A long form and a short form of each of these isoforms is produced, the short form lacks a hydrophobic leader sequence and may exist as a cytoplasmic protein rather than being membrane-bound. Other alternatively spliced transcripts have been described but the full-length nature of all these transcripts is not known. Sequence Similarities: Belongs to the taffazin family.
Molecular Weight:	60 kDa
UniProt:	Q16635

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse 1. Acehan, D., Vaz, F., Houtkooper, R. H., James, J., Moore, V., Tokunaga, C., Kulik, W., Wansapura, J., Toth, M. J., Strauss, A., Khuchua, Z. Cardiac and skeletal muscle defects in a mouse model of human Barth syndrome. J. Biol. Chem. 286: 899-908, 2011. 2. Barth, P. G., Valianpour, F., Bowen, V. M., Lam, J., Duran, M., Vaz, F. M., Wanders, R. J. A. X-linked cardioskeletal myopathy and neutropenia (Barth syndrome): an update. Am. J. Med. Genet. 126A: 349-354, 2004. 3. Claypool, S. M., McCaffery, J. M., Koehler, C. M. Mitochondrial mislocalization and altered assembly of a cluster of Barth syndrome mutant tafazzins. J. Cell Biol. 174: 379-390, 2006. 4. Hastings, R., Steward, C., Tsai-Goodman, B., Newbury-Ecob, R.

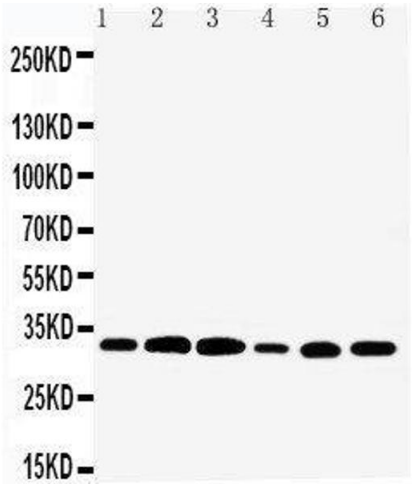
Application Details

	Dysmorphology of Barth syndrome. Clin. Dysmorph. 18: 185-187, 2009.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Anti-Tafazzin/TAZ antibody, Western blotting Lane 1: Rat Skeletal Muscle Tissue Lysate Lane 2: Rat Heart Tissue Lysate Lane 3: Rat Liver Tissue Lysate Lane 4: HELA Cell Lysate Lane 5: SMMC Cell Lysate Lane 6: SCG Cell Lysate