Datasheet for ABIN652207

anti-TSC1 antibody (AA 401-430)

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Overview

Quantity:	400 µL
Target:	TSC1
Binding Specificity:	AA 401-430
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TSC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Hamartin (TSC1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 401-430 amino acids from the Central region of human Hamartin (TSC1).
Clone:	RB11648
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	TSC1
Alternative Name:	Hamartin (TSC1) (TSC1 Products)

Target Details

Background:	Implicated as a tumor suppressor. May have a function in vesicular transport. Interaction between TSC1 and TSC2 may facilitate vesicular docking. Defects in TSC1 are the cause of tuberous sclerosis complex (TSC). The molecular basis of TSC is a functional impairement of the hamartin-tuberin complex. TSC is an autosomal dominant multi-system disorder that affects especially the brain, kidneys, heart, and skin. TSC is characterized by hamartomas (benign overgrowths predominantly of a cell or tissue type that occurs normally in the organ) and hamartias (developmental abnormalities of tissue combination). Clinical symptoms can range from benign hypopigmented macules of the skin to profound mental retardation with intractable seizures to premature death from a variety of disease-associated causes. Defects in TSC1 may be a cause of focal cortical dysplasia of Taylor balloon cell type (FCDBC). FCDBC is a subtype of cortical displasias linked to chronic intractable epilepsy. Cortical dysplasias display a broad spectrum of structural changes, which appear to result from changes in proliferation, migration, differentiation, and apoptosis of neuronal precursors and neurons during cortical development.
Molecular Weight:	129767
Gene ID:	7248
NCBI Accession:	NP_000359, NP_001155898, NP_001155899
UniProt:	Q92574
Pathways:	RTK Signaling, AMPK Signaling, Regulation of Cell Size, Tube Formation

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

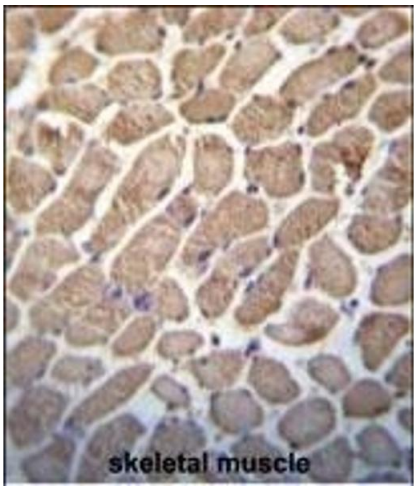
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

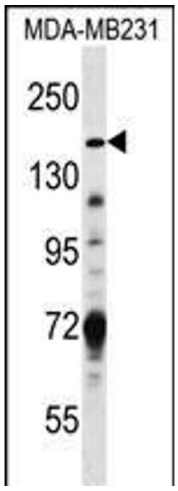
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Images



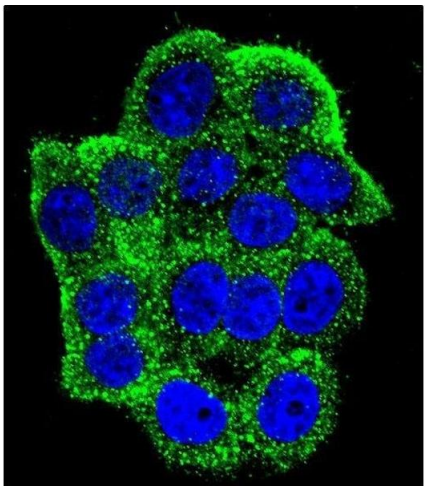
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Hamartin (TSC1) Antibody (Center) (ABIN652207 and ABIN2840760) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Hamartin (TSC1) Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. TSC1 Antibody (Center) (ABIN652207 and ABIN2840760) western blot analysis in MDA-M cell line lysates (35 µg/lane).This demonstrates the TSC1 antibody detected the TSC1 protein (arrow).



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of Hamartin (TSC1) Antibody (Center) (ABIN652207 and ABIN2840760) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DI was used to stain the cell nuclear (blue).