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Datasheet for ABIN3043498
anti-Tuberin antibody (AA 1611-1807)

7 Images

Overview

Quantity:	100 µg
Target:	Tuberin (TSC2)
Binding Specificity:	AA 1611-1807
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tuberin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tuberin(TSC2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Tuberin recombinant protein (Position: H1611-V1807). Human Tuberin shares 94% and 90% amino acid (aa) sequences identity with mouse and rat Tuberin, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Tuberin(TSC2) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: tuberous sclerosis 2 Protein Name: Tuberin

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Tuberin (TSC2)

Alternative Name: TSC2 ([TSC2 Products](#))

Background: Tuberous sclerosis 2 protein, also known as TSC2 or Tuberin is a protein that is in humans. The chromosomal location of this gene is 16p13.3. Mutations in this gene lead to tuberous sclerosis complex. Its gene product is believed to be a tumor suppressor and is able to stimulate specific GTPases. The protein associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. This gene involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. It stimulates weakly the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 in vitro.

Synonyms: FLJ43106 antibody|LAM antibody|OTTHUMP00000158940 antibody|OTTHUMP00000198394 antibody|OTTHUMP00000198395 antibody|TSC2 antibody|TSC2_HUMAN antibody|TSC4 antibody|TSC4 gene, formerly antibody|TSC4, formerly antibody|Tuberin antibody|Tuberous sclerosis 2 antibody|Tuberous sclerosis 2 protein antibody|Tuberous sclerosis 2 protein homolog antibody

Gene ID: 7249

UniProt: [P49815](#)

Pathways: [RTK Signaling](#), [AMPK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Cell Size](#), [Tube Formation](#), [Protein targeting to Nucleus](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for Tuberin is approximately 0.25 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

ABIN921231 in IHC(P).

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 Sodium azide.

Preservative: Sodium azide

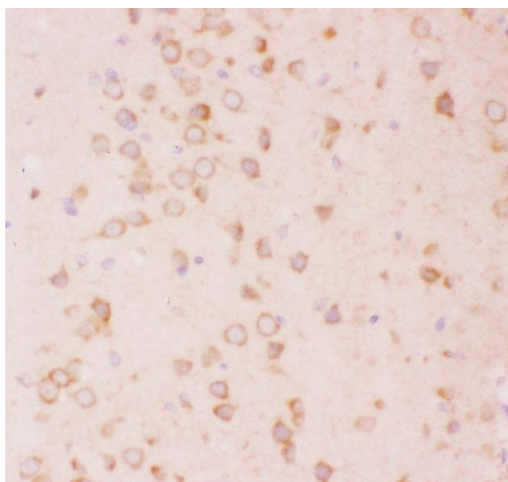
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



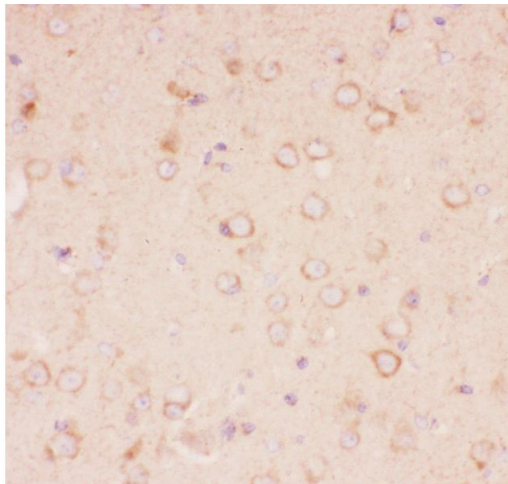
Immunohistochemistry

Image 1. Anti-Tuberin Picoband antibody, IHC(P): Rat Brain Tissue



Western Blotting

Image 2. Anti-Tuberin Picoband antibody, All lanes: Anti Tuberin at 0.5ug/ml WB: Recombinant Human Tuberin Protein 0.5ng Predicted bind size: 41KD Observed bind size: 41KD



Immunohistochemistry

Image 3. Anti-Tuberin Picoband antibody, IHC(P): Mouse Brain Tissue

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3043498.