

Datasheet for ABIN712138

anti-Tuberin antibody (pSer664) (Biotin)



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Overview

Quantity:	100 µL
Target:	Tuberin (TSC2)
Binding Specificity:	pSer664
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tuberin antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Tuberin around the phosphorylation site of Ser664
Isotype:	IgG
Purification:	Purified by Protein A.

Target Details

Target:	Tuberin (TSC2)
Alternative Name:	Tsc2 (TSC2 Products)
Background:	Tuberin, or TSC2 (Tuberous sclerosis complex), is implicated as a tumor suppressor. It may function in vesicular transport, and may also play a role in the regulation of cell growth arrest and in the regulation of transcription mediated by steroid receptors. Interaction between

Target Details

hamartin (TSC1) and tuberin may facilitate vesicular docking. It specifically stimulates the intrinsic GTPase activity of the Ras related protein RAP1A and RAB5, suggesting a possible mechanism for its role in regulating cellular growth. Mutations in tuberin lead to constitutive activation of RAP1A in tumors. At least three isoforms of Tuberin exist.

Synonyms: TSC2phospho S664, FLJ43106, LAM, TSC2, TSC2_HUMAN, TSC4, Tuberin, Tuberous sclerosis 2 protein.

Gene ID: 7249

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: 1:100-1000, IHC-P: 1:100-500
Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 100 µg/mL BSA, 50 % glycerol and 0.09 % 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: -20 °C

Storage Comment: Store at 4 °C

Expiry Date: 12 months