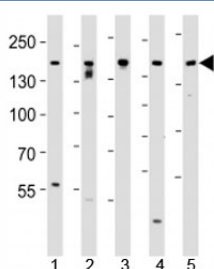


## Tuberin Antibody (F49604)

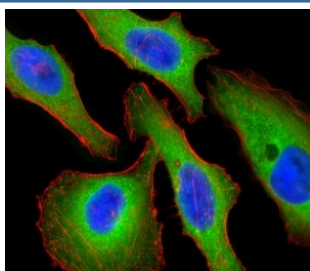
Catalog No.	Formulation	Size
F49604-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49604-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

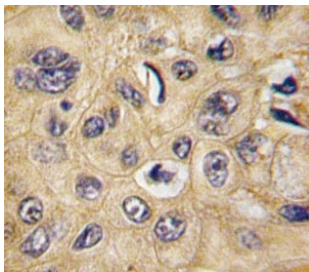
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity
<b>UniProt</b>	P49815
<b>Applications</b>	Immunofluorescence : 1:10-1:50 Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50
<b>Limitations</b>	This Tuberin antibody is available for research use only.



Western blot analysis of lysate from SH-SY5Y, MCF-7, PC3, LNCaP, HeLa, cell line (left to right) using Tuberin antibody at 1:1000 for each lane.



Fluorescent confocal image of HeLa cells stained with Tuberin antibody. Alexa Fluor 488 secondary (green) was used. Tuberin/TSC2 immunoreactivity is localized to the cytoplasm.



IHC analysis of FFPE human hepatocarcinoma tissue stained with Tuberin antibody

## Description

Mutations in TSC2 lead to tuberous sclerosis complex. This protein is believed to be a tumor suppressor and is able to specifically stimulate the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. TSC2 associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. It may have a function in vesicular transport, but may also play a role in the regulation of cell growth arrest and in the regulation of transcription mediated by steroid receptors. Interaction between TSC1 and TSC2 may facilitate vesicular docking.

## Application Notes

Titration of the Tuberin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 1776-1805 from the human protein was used as the immunogen for this Tuberin antibody.

## Storage

Aliquot the Tuberin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.