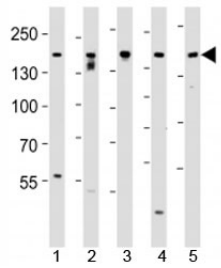
Tuberin Antibody (F49604)

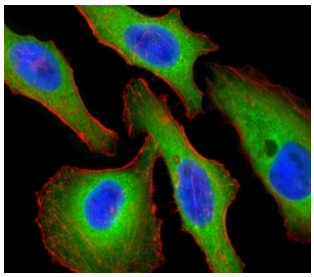
Catalog No.	Formulation	Size
F49604-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49604-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

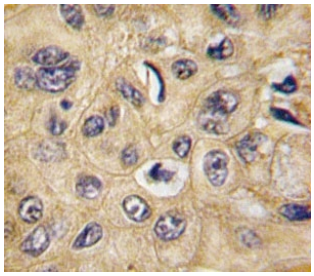
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P49815
Applications	Immunofluorescence : 1:10-1:50 Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50
Limitations	This 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.