For Research Use Only

CoraLite® Plus 488-conjugated Tuberin/TSC2 Polyclonal antibody

CL488-24601



Catalog Number: CL488-24601

Basic Information

Catalog Number:

GenBank Accession Number:

DC130300

 Size:
 GeneID (NCBI):

 1000 μ g/ml
 7249

Source: UNIPROT ID:
Rabbit P49815
Isotype: Full Name:

IgG tuberous sclerosis 2
Immunogen Catalog Number: Calculated MW:

AG18133 1807 aa, 201 kDa

Observed MW: 200 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions: IF 1:50-1:500

Excitation/Emission maxima

wavelengths: 493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF: HEK-293 cells,

Background Information

TSC2, also named as TSC4, FLJ43106 and LAM, acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1. In complex with TSC1, TSC2 inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. TSC2 implicated as a tumor suppressor. It is involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. TSC2 stimulates weakly the intrinsic GTPase activity of the Rasrelated proteins RAP1A and RAB5 in vitro. Mutations in TSC2 lead to constitutive activation of RAP1A in tumors. Mutations in either TSC2 or the related TSC1 (hamartin) gene cause tuberous sclerosis complex (TSC), an autosomal dominant disorder characterized by development of multiple, widespread non-malignant tumors.

Storage

Storage

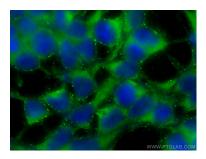
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer

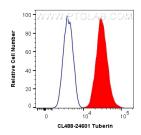
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using Coralite® Plus 488 Tuberin/TSC2 antibody (CL488-24601) at dilution of 1:200.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human Tuberin/TSC2 (CL488-24601) (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).