

CoraLite®594-conjugated RSPO3 Monoclonal antibody

Catalog Number: **CL594-66314**

Basic Information

Catalog Number:

CL594-66314

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG9899

GenBank Accession Number:

BC022367

GeneID (NCBI):

84870

UNIPROT ID:

Q9BXY4

Full Name:

R-spondin 3 homolog (Xenopus laevis)

Calculated MW:

272 aa, 31 kDa

Observed MW:

32 kDa

Purification Method:

Protein A purification

CloneNo.:

1E4F1

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human

Positive Controls:

IF/ICC : A549 cells,

Background Information

RSPO3, also named as R-spondin-3, is a 272 amino acid protein, which contains 1 TSP type-1 domain and 2 FU (furin-like) repeats. RSPO3 may be a secreted protein and belongs to the R-spondin family. RSPO3 is expressed at higher level in placenta, small intestine, fetal thymus and lymph node. RSPO3 is an activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors. The four R-spondins (RSPO1-4) and three related leucinerich repeat-containing G-protein coupled receptors, LGR4, LGR5, and LGR6 (LGR4-6), constitute a ligand-receptor system that plays critical roles in development, stem cell survival, and oncogenesis. Ectopic expression of RSPO2/3 in mouse mammary epithelial cells led to an increase in invasiveness in vitro and in tumor formation and metastasis in vivo.

Storage

Storage:

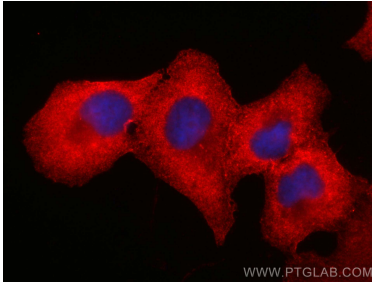
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

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 Methanol) fixed A549 cells using Coralite®594 RSPO3 antibody (CL594-66314, Clone: 1E4F1) at dilution of 1:200.