

For Research Use Only

# CoraLite® Plus 488-conjugated RSPO3 Monoclonal antibody



Catalog Number: CL488-66314

## Basic Information

<b>Catalog Number:</b> CL488-66314	<b>GenBank Accession Number:</b> BC022367	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84870	<b>CloneNo.:</b> 1E4F1
<b>Source:</b> Mouse	<b>Full Name:</b> R-spondin 3 homolog (Xenopus laevis)	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 272 aa, 31 kDa	<b>Excitation/Emission maxima wavelengths:</b> 488 nm / 515 nm
<b>Immunogen Catalog Number:</b> AG9899	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : A549 cells,
<b>Species Specificity:</b> human	

## 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 (RSPO 1-4) 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

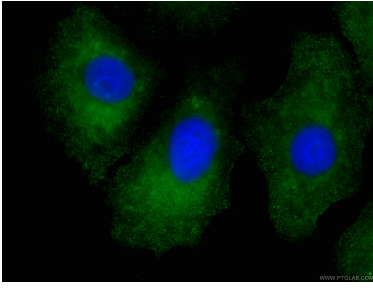
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using CL488-66314 (RSPO3 antibody) at dilution of 1:100.