

RSPO3 Monoclonal antibody

Catalog Number: 66314-1-Ig

Basic Information

Catalog Number: 66314-1-Ig	GenBank Accession Number: BC022367	Purification Method: Protein A purification
Size: 1900 ug/ml	GeneID (NCBI): 84870	CloneNo.: 1E4F1
Source: Mouse	UNIPROT ID: Q9BXY4	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Isotype: IgG2b	Full Name: R-spondin 3 homolog (Xenopus laevis)	
Immunogen Catalog Number: AG9899	Calculated MW: 272 aa, 31 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls:
Species Specificity: human	WB : human skeletal muscle tissue, A549 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human lung cancer tissue,
	IF/ICC : A549 cells,

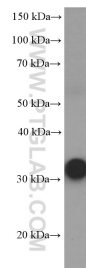
Background Information

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.

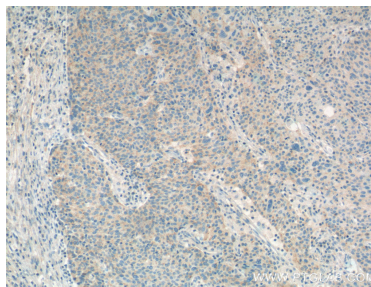
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

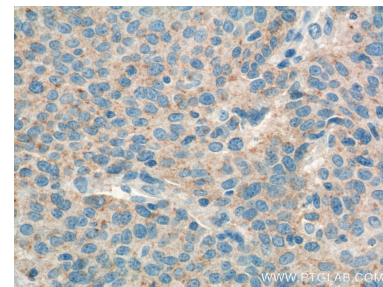
Selected Validation Data



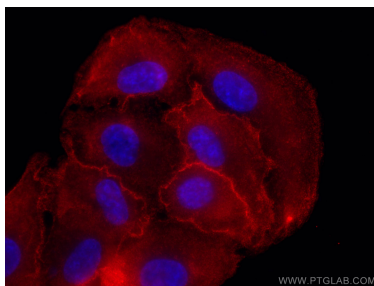
human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66314-1-Ig (RSP03 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66314-1-Ig (RSP03 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66314-1-Ig (RSP03 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using RSP03 antibody (66314-1-Ig, Clone: 1E4F1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).