For Research Use Only

RSPO3 Polyclonal antibody

Catalog Number:17193-1-AP Featured Product 13 Publications

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Basic Information

Catalog Number:
17193-1-AP

Size:
150ul , Concentration: 450 ug/ml by Nanodrop and 187 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

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:
30-40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:100-1:400

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse small intestine tissue, Transfected HEK-293 cells

IP : human placenta tissue,

IHC : human lung cancer tissue, human placenta tissue

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 RSPO2/3in mouse mammary epithelial cells led to an increase in invasiveness in vitro and in tumor formation and metastasis in vivo.

Notable Publications

Author	Pubmed ID	Journal	Application
Bhupesh Singla	32750106	Cardiovasc Res	WB
Kendra S Carmon	24639526	Proc Natl Acad Sci U S A	WB
Tomohiko Shinkawa	35272688	J Exp Clin Cancer Res	IHC

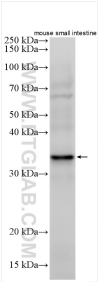
Storage

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

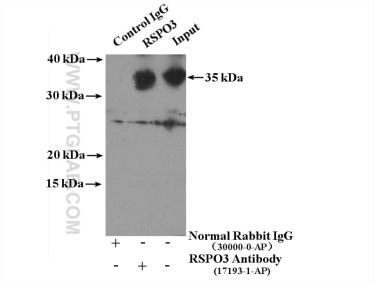
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

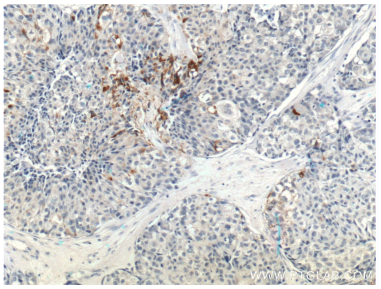
Selected Validation Data



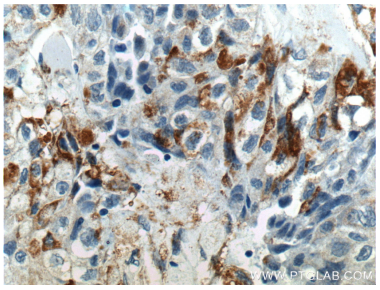
mouse small intestine were subjected to SDS PAGE followed by western blot with 17193-1-AP (RSPO3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-RSPO3 (IP:17193-1-AP, 4ug; Detection:17193-1-AP 1:300) with human placenta tissue lysate 2800ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 17193-1-AP (RSPO3 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 17193-1-AP (RSPO3 Antibody) at dilution of 1:200 (under 40x lens).