

For Research Use Only

CXXC5 Polyclonal antibody

Catalog Number: 16513-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

16513-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 193 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9733

GenBank Accession Number:

BC017439

GeneID (NCBI):

51523

UNIPROT ID:

Q7LFL8

Full Name:

CXXC finger 5

Calculated MW:

322aa, 33 kDa; 227aa, 24 kDa

Observed MW:

35-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, zebrafish

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 : MCF-7 cells, mouse brain tissue, SH-SY5Y cells

IP : SH-SY5Y cells, mouse brain tissue

IHC : mouse brain tissue, human prostate cancer tissue, rat brain tissue

IF/ICC : MCF-7 cells,

Background Information

CXXC5 (CXXC-type zinc finger protein 5) is also named as HSPC195, RINF and TCCCA00297. CXXC5 is a member of the CXXC-type zinc-finger protein family. CXXC5 is a short protein (322 amino acids in length) that does not have any catalytic domain, but is able to bind to DNA and act as a transcription factor and epigenetic factor through protein-protein interactions. In addition, CXXC5 is capable of regulating various signal transduction processes, including the TGF- β , Wnt and ATM-p53 pathways, thereby acting as a novel and crucial signaling coordinator. CXXC5 plays an important role in embryonic development and adult tissue homeostasis by regulating cell proliferation, differentiation and apoptosis (PMID: 30479059). CXXC5 has two isoforms of 33 kDa and 24 kDa (PMID: 25805812). CXXC5 is modified by phosphorylation after translation.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyan Wu	34621736	Front Cell Dev Biol	WB, ChIP
Tingling Zou	36063856	Chem Biol Interact	WB
Audrey Astori	33241676	Haematologica	WB, ChIP

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

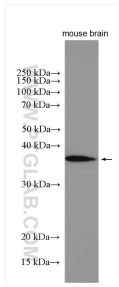
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

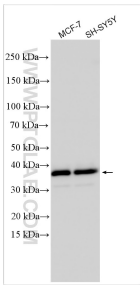
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

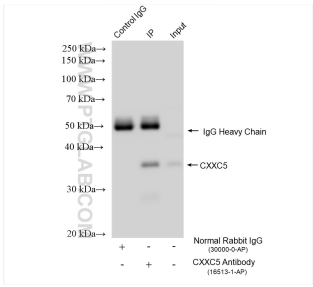
Selected Validation Data



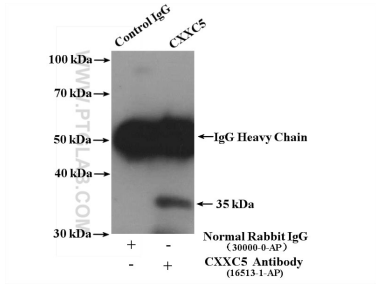
mouse brain tissue were subjected to SDS PAGE followed by western blot with 16513-1-AP (CXXC5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



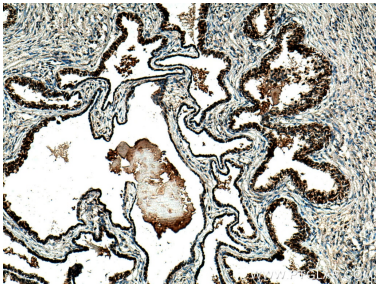
Various lysates were subjected to SDS PAGE followed by western blot with 16513-1-AP (CXXC5 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



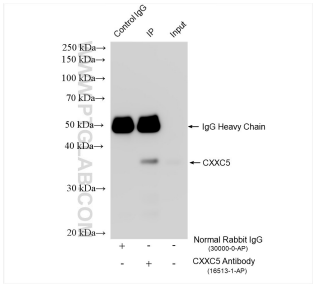
IP result of anti-CXXC5 (IP:16513-1-AP, 4ug; Detection:16513-1-AP 1:6000) with SH-SY5Y cells lysate 1280 ug.



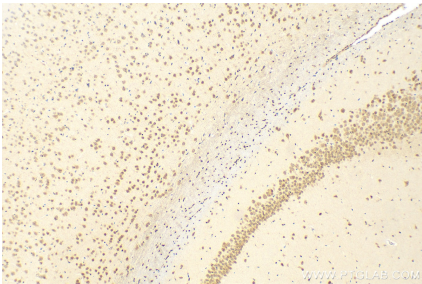
IP result of anti-CXXC5 (IP:16513-1-AP, 4ug; Detection:16513-1-AP 1:300) with SH-SY5Y cells lysate 3400 ug.



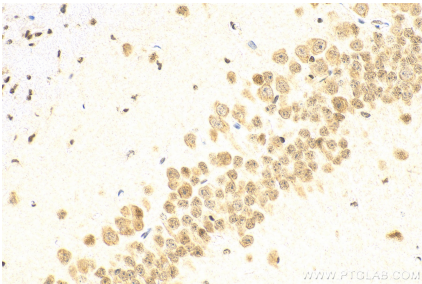
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 16513-1-AP (CXXC5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



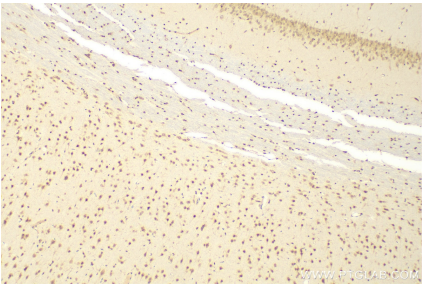
IP result of anti-CXXC5 (IP:16513-1-AP, 4ug; Detection:16513-1-AP 1:6000) with mouse brain tissue lysate 2400 ug.



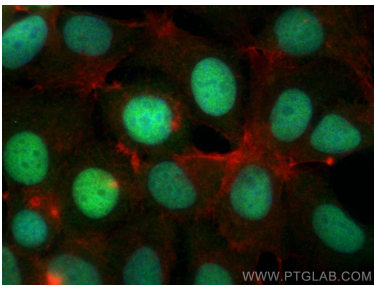
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16513-1-AP (CXXC5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16513-1-AP (CXXC5 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 16513-1-AP (CXXC5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CXXC5 antibody (16513-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).