

For Research Use Only

# CXXC5 Polyclonal antibody

Catalog Number: 16513-1-AP

Featured Product

9 Publications



## Basic Information

<b>Catalog Number:</b> 16513-1-AP	<b>GenBank Accession Number:</b> BC017439	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 800 µg/ml by Nanodrop and 193 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 51523	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:2000-1:16000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> CXXC finger 5	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 322aa,33 kDa; 227aa,24 kDa	<b>IF 1:50-1:500</b>
<b>Immunogen Catalog Number:</b> AG9733	<b>Observed MW:</b> 35-40 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, MCF-7 cells IP : SH-SY5Y cells, IHC : human prostate cancer tissue, IF : HepG2 cells,
<b>Cited Applications:</b> ChIP, IHC, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse, zebrafish	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CXXC5 (CXXC-type zinc finger protein 5) is also named as HSPC195, RINF and TCCCIA00297. 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- $\beta$ , 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

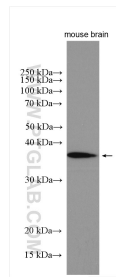
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

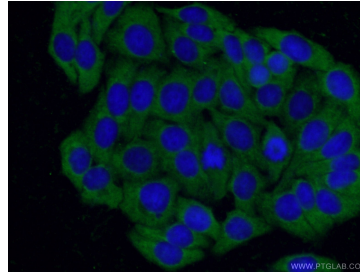
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

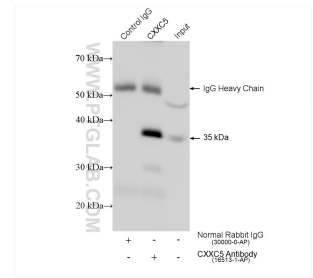
## Selected Validation Data



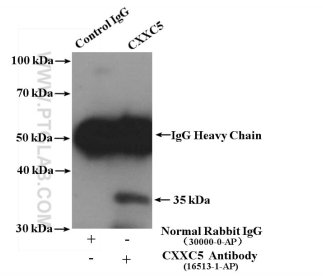
mouse brain tissue were subjected to SDS PAGE followed by western blot with 16513-1-AP (CXXC5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



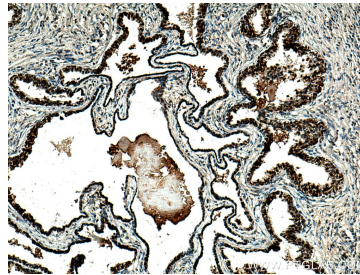
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 16513-1-AP (CXXC5 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-CXXC5(IP:16513-1-AP, 4ug; Detection:16513-1-AP 1:8000) with SH-SY5Y cells lysate 1240 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).