

For Research Use Only

# XRCC4 Polyclonal antibody

Catalog Number: 15817-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

15817-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8606

**GenBank Accession Number:**

BC005259

**GeneID (NCBI):**

7518

**UNIPROT ID:**

Q13426

**Full Name:**

X-ray repair complementing defective repair in Chinese hamster cells 4

**Calculated MW:**

310 aa, 35 kDa

**Observed MW:**

55 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

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

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, rat

**Cited Species:**

human, mouse

**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:** HepG2 cells, HEK-293 cells, COLO 320 cells

**IP:** HepG2 cells,

**IHC:** human breast cancer tissue, rat testis tissue, rat small intestine tissue

## Background Information

There are at least two pathways for eukaryotes to repair DNA double-strand breaks: homologous recombination and nonhomologous end joining (NHEJ). XRCC4 is one of the core machinery of NHEJ that required for double-strand break repair and V(D)J recombination. The DNA ligase IV (LIG4)-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yiran Zhong	31062340	FEBS Lett	WB
Hui Dong	25818601	Toxicol Appl Pharmacol	WB
Yuqing Wen	30842344	Biosci Rep	WB,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

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

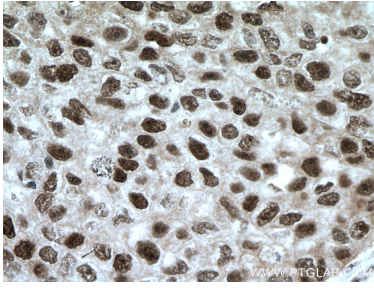
T: 4006900926

E: Proteintech-CN@ptglab.com

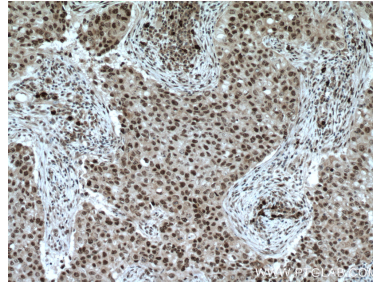
W: ptgcn.com

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

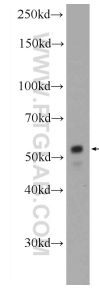
## Selected Validation Data



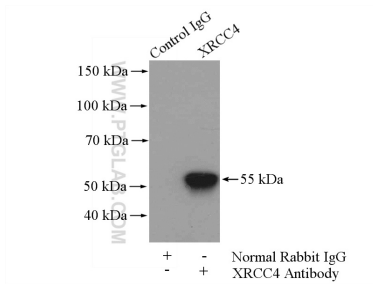
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15817-1-AP (XRCC4 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



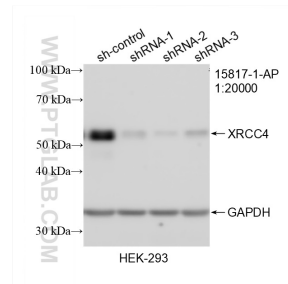
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15817-1-AP (XRCC4 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HepG2 cells were subjected to SDS PAGE followed by western blot with 15817-1-AP (XRCC4 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-XRCC4 (IP:15817-1-AP, 4ug; Detection:15817-1-AP 1:800) with HepG2 cells lysate 3200ug.



WB result of XRCC4 antibody (15817-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-XRCC4 transfected HEK-293 cells.