

For Research Use Only

XRCC4 Polyclonal antibody

Catalog Number: 15817-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

15817-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, 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
Kunming Zhao	32203529	PLoS Biol	

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

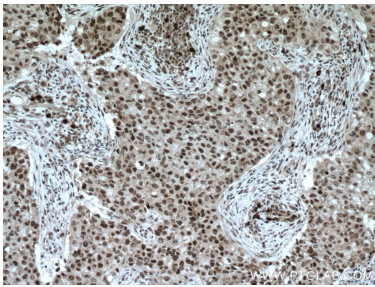
For technical support and original validation data for this product please contact:

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

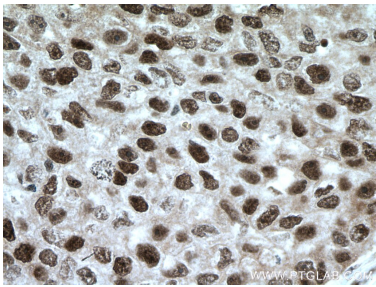
E: proteintech@ptglab.com
W: ptglab.com

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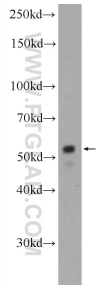
Selected Validation Data



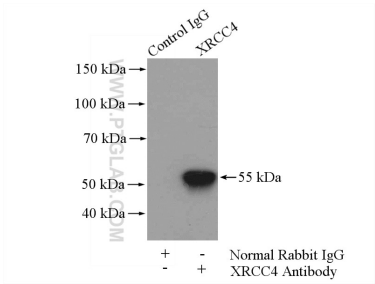
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15817-1-AP (XRCC4 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



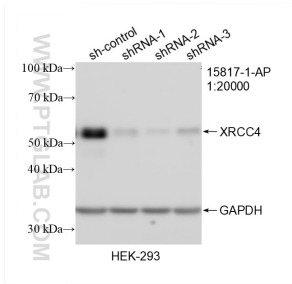
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15817-1-AP (XRCC4 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.