

For Research Use Only

ERCC3 Polyclonal antibody

Catalog Number:10580-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

10580-1-AP

Size:

150ul , Concentration: 350 ug/ml by Nanodrop and 250 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0876

GenBank Accession Number:

BC008820

GeneID (NCBI):

2071

UNIPROT ID:

P19447

Full Name:

excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing)

Calculated MW:

89 kDa

Observed MW:

89 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 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

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 : HEK-293 cells, HeLa cells, A431 cells, COLO 320 cells, HT-1080 cells, mouse colon tissue

IP : A431 cells,

IHC : human stomach tissue,

Background Information

Excision repair cross-complementing 3/xeroderma pigmentosum B (ERCC3/XPB) DNA helicase, is an essential ATP-dependent DNA helicase that functions as an integral component of the transcription factor IIH complex. ERCC3 is involved in initiation of basal transcription and global genome repair as well as in transcription-coupled repair (TCR) [PMID:19942596]. At the cellular level, a defect in ERCC3 results in high UV sensitivity, reduced post-UV RNA synthesis recovery and decreased DNA repair due to defective NER [PMID:16947863].

Notable Publications

Author	Pubmed ID	Journal	Application
Xie Qiong-Hui QH	21672525	Biochem Biophys Res Commun	WB
Yangyang Han	28638477	Theranostics	WB
Yumeng Zhan	38604172	Mol Cell	

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

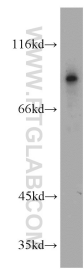
For technical support and original validation data for this product please contact:

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

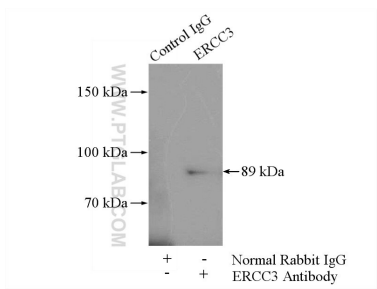
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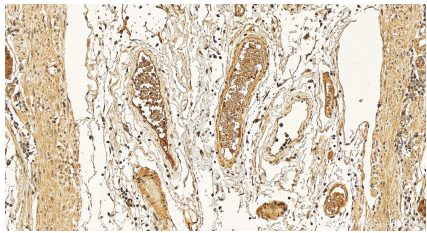
Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 10580-1-AP (ERCC3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-ERCC3 (IP:10580-1-AP, 4ug; Detection:10580-1-AP 1:500) with A431 cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 10580-1-AP (ERCC3 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).