

For Research Use Only

RAD23B Polyclonal antibody

Catalog Number: 12121-1-AP

7 Publications



Basic Information

Catalog Number:

12121-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 273 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2763

GenBank Accession Number:

BC020973

GeneID (NCBI):

5887

UNIPROT ID:

P54727

Full Name:

RAD23 homolog B (S. cerevisiae)

Calculated MW:

409 aa, 43 kDa

Observed MW:

58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, pig

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 : A431 cells, HEK-293 cells, mouse brain tissue, rat brain tissue

IHC : human breast cancer tissue,

Background Information

RAD23B, also named as p58, hHR23B and HR23B, belongs to the RAD23 family. It plays a central role both in proteasomal degradation of misfolded proteins and DNA repair. RAD23B is a central component of a complex required to couple deglycosylation and proteasome-mediated degradation of misfolded proteins in the endoplasmic reticulum that are retrotranslocated in the cytosol. Involved in DNA excision repair by stabilizing XPC protein. It may play a part in DNA damage recognition and/or in altering chromatin structure to allow access by damage-processing enzymes. RAD23B displays aberrant mobility in SDS-polyacrylamide gels, as it is typically detected as a 58- to 60-kDa protein despite a predicted size of 42 kDa (PMID: 8692695, 12052895).

Notable Publications

Author	Pubmed ID	Journal	Application
Nitchakarn Kaokhum	36182100	Mol Cell Proteomics	WB
Li-Ming Tan	31772670	J Cancer	WB
Ma-Sha Huang	31249811	Front Oncol	WB

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

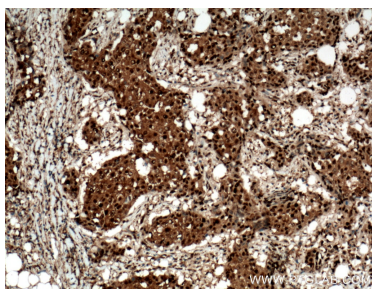
For technical support and original validation data for this product please contact:

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

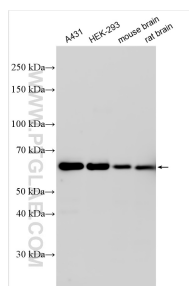
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12121-1-AP (RAD23B antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 12121-1-AP (RAD23B antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.