

For Research Use Only

FKBP5 Polyclonal antibody

Catalog Number: 14155-1-AP

Featured Product

18 Publications



Basic Information

Catalog Number:

14155-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 260 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5337

GenBank Accession Number:

BC042605

GeneID (NCBI):

2289

UNIPROT ID:

Q13451

Full Name:

FK506 binding protein 5

Calculated MW:

457 aa, 51 kDa

Observed MW:

51 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 1:20-1:200

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 : K-562 cells, HEK-293 cells, mouse thymus tissue

IP : K-562 cells,

IHC : human colon cancer tissue, mouse brain tissue

Background Information

FKBP5, also known as FKBP51, belongs to the family of immunophilins, FK506 binding proteins (FKBPs). FKBP5 is a negative regulator of GR activity and plays a key role in the termination of the stress response by GRs. FKBP5 limits GR function by decreasing ligand-binding sensitivity, thereby delaying nuclear translocation and reducing GR-dependent transcriptional activity. The known functions of FKBP5 include the regulation of steroid hormone receptors, inhibiting apoptosis in cancer cells, promoting Akt1 dephosphorylation, and inhibiting the Akt1 pathways, to name a few. FKBP5 is widely expressed and the calculated molecular weight is 51 kDa (PMID: 21119664, PMID: 34077736, PMID: 37154033).

Notable Publications

Author	Pubmed ID	Journal	Application
Jin Yang	31540304	Cells	WB,IF
Kun Huang	30476519	Brain Res Bull	WB
Kento Wada	34713710	J Am Heart Assoc	IF

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

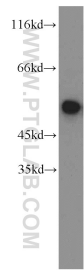
For technical support and original validation data for this product please contact:

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

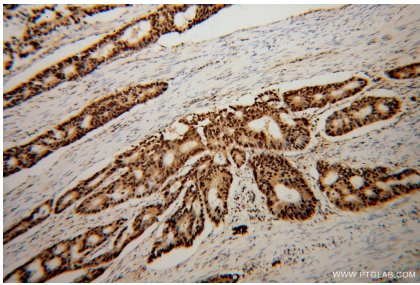
E: proteintech@ptglab.com
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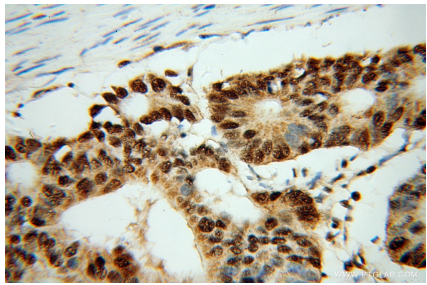
Selected Validation Data



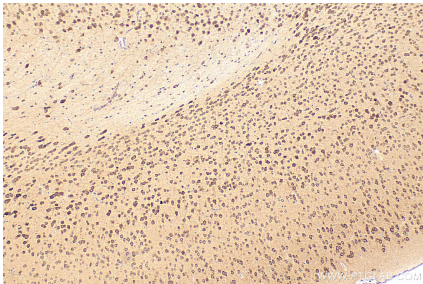
K-562 cells were subjected to SDS PAGE followed by western blot with 14155-1-AP (FKBP5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



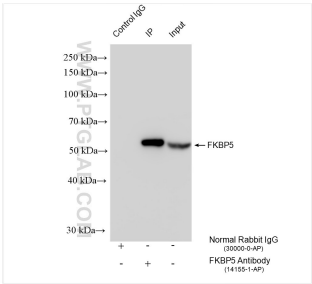
Immunohistochemical analysis of paraffin-embedded human colon cancer using 14155-1-AP (FKBP5 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 14155-1-AP (FKBP5 antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14155-1-AP (FKBP5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-FKBP5 (IP:14155-1-AP, 4ug; Detection:14155-1-AP 1:4000) with K-562 cells lysate 1800 ug.