

For Research Use Only

# FKBP2 Monoclonal antibody

Catalog Number: 66091-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 66091-1-Ig	<b>GenBank Accession Number:</b> BC003384	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 700 ug/ml by Nanodrop and 573 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2286	<b>CloneNo.:</b> 2H7E8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P26885	<b>Recommended Dilutions:</b> WB: 1:500-1:1000 IHC: 1:50-1:500 FC (Intra): 0.40 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG1	<b>Full Name:</b> FK506 binding protein 2, 13kDa	
<b>Immunogen Catalog Number:</b> AG19113	<b>Calculated MW:</b> 142 aa, 16 kDa	
	<b>Observed MW:</b> 16 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA, FC (Intra)	<b>Positive Controls:</b> WB : Human cerebellum tissue, human brain tissue, pig liver tissue, rat brain tissue IHC : human prostate cancer tissue, FC (Intra) : HepG2 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, rat, pig	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

FKBP2 is also named as FKBP13 and belongs to the FKBP-type PPIase family. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. FKBP2 has a 21-amino acid signal peptide and appears to be membrane-associated(PMID:1713687). It is localized to the lumen of the endoplasmic reticulum (ER). FKBP12 and FKBP13 are highly similar proteins, of molecular masses 12 kDa and 13 kDa respectively, with approx.43 % amino acid identity. The strong homology between FKBP12 and FKBP13 suggests that they may share similar biological functions, although, apart from rotamase activity, details relating to the function of either protein are scant(PMID:8373365).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jing Wen	34985411	Emerg Microbes Infect	WB
Yan-Heng Zhou	31848275	mBio	

## Storage

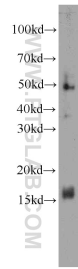
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

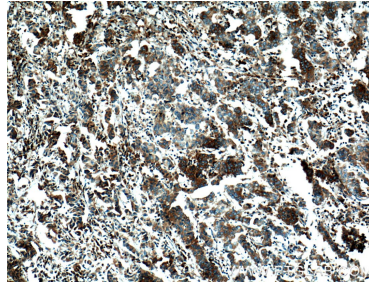
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

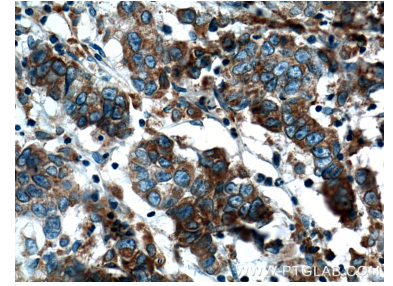
## Selected Validation Data



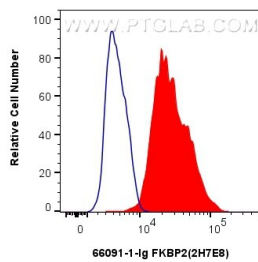
human cerebellum tissue were subjected to SDS PAGE followed by western blot with 66091-1-Ig (FKBP2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66091-1-Ig (FKBP2 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 prostate cancer tissue slide using 66091-1-Ig (FKBP2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.4  $\mu$ g FKBP2 Monoclonal antibody (66091-1-Ig, Clone:2H7E8) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4  $\mu$ g Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).