

For Research Use Only

Lamin B2 Recombinant antibody

Catalog Number: 82801-2-RR



Basic Information

Catalog Number: 82801-2-RR	GenBank Accession Number: BC006551	Purification Method: Protein A purification
Size: 800 ug/ml	GeneID (NCBI): 84823	CloneNo.: 230184E7
Source: Rabbit	UNIPROT ID: Q03252	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:400-1:1600 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: lamin B2	
Immunogen Catalog Number: AG1335	Calculated MW: 68 kDa Observed MW: 68 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	WB : HeLa cells, COLO 320 cells, HL-60 cells, Jurkat cells, HT-1080 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human stomach cancer tissue,
	IF/ICC : HepG2 cells,

Background Information

Lamins are nuclear membrane structural components that are important in structural integrity of the nucleus and may also interact with chromatin (PMID: 33033404). Research studies show that lamin B2 knockout mice exhibit neuronal developmental defects and that both proteins are essential for typical brain development (PMID: 20145110). Mutations in Lamin B2 can result in a susceptibility to developing acquired partial lipodystrophy, a rare disorder characterized by the progressive loss of subcutaneous fat in a bilaterally symmetrical fashion (PMID: 16826530).

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

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

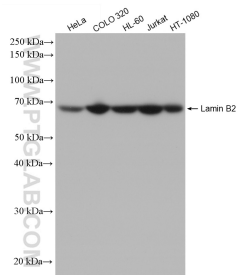
T: 4006900926

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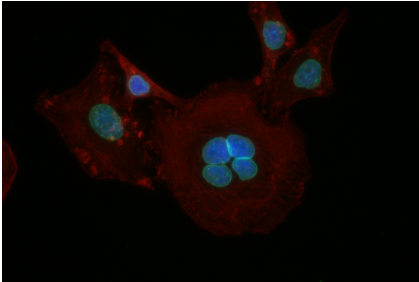
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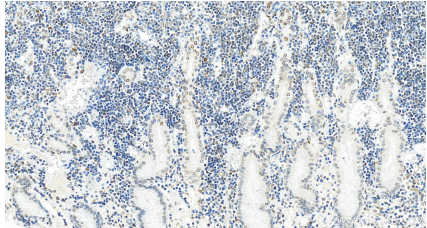
Selected Validation Data



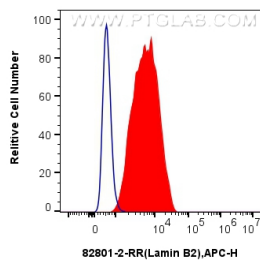
Various lysates were subjected to SDS PAGE followed by western blot with 82801-2-RR (Lamin B2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



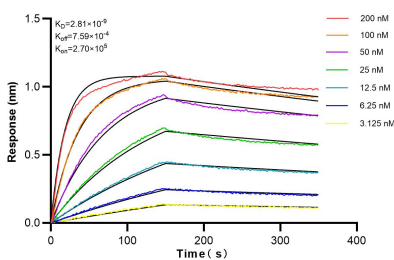
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Lamin B2 antibody (82801-2-RR, Clone: 230184E7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded stomach cancer slide using 82801-2-RR (Lamin B2 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



(blue)1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug Anti-Human Lamin B2 (82801-2-RR, Clone:230184E7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:166(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 82801-2-RR against Human Lamin B2 were performed. The affinity constant is 2.81 nM.