

For Research Use Only

SP7 Polyclonal antibody

Catalog Number: 28694-1-AP

2 Publications



Basic Information

Catalog Number:

28694-1-AP

Concentration:

350 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG29889

GenBank Accession Number:

NM_152860

GeneID (NCBI):

121340

UNIPROT ID:

Q8TDD2

Full Name:

Sp7 transcription factor

Calculated MW:

45 kDa

Observed MW:

45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human, rat

Positive Controls:

WB : Saos-2 cells,

Background Information

Sp7 is identified in several tissues, including bone, tooth, brain, and the reproductive tract (PMID: 11792318, 33135214, 36881265). In bone, Sp7 is expressed at multiple stages throughout the mesenchymal bone lineage and plays different roles in different osteocytes (PMID: 36881265). SP7 regulates osteoblast differentiation and bone formation through osteoblast target genes by recognizing AT-rich region. In osteocytes, SP7 regulates osteocyte maturation and intracortical remodeling through osteocyte target genes by recognizing TGA(G/T) TCA motif. SP7 also regulates chondrocyte differentiation and endochondral ossification (36881265).

Notable Publications

Author	Pubmed ID	Journal	Application
Taojing Yu	39956235	Int J Biol Macromol	WB
Lijun Li	39920313	Sci Rep	IHC

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

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

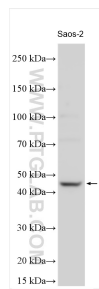
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28694-1-AP (SP7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.