

For Research Use Only

SP7 Recombinant antibody

Catalog Number: 85934-1-RR



Basic Information

Catalog Number:

85934-1-RR

Size:

100ul, Concentration: 1000 µg/ml by
Nanodrop;

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:

Protein A purification

CloneNo.:

250286C5

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : Saos-2 cells, U2OS cells, MG-63 cells, Sp2/O cells,
mouse spinal cord tissue, mouse testis tissue, rat brain
tissue

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).

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

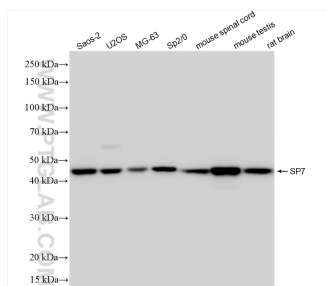
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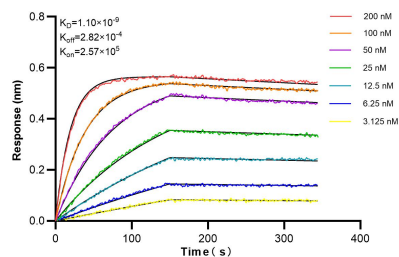
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85934-1-RR (SP7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85934-1-RR against Human SP7 were performed. The affinity constant is 1.10 nM.