

Anti-SP3 Picoband Antibody

Catalog # ABO12196

Product Information

Application	WB, IHC-P
Primary Accession	Q02447
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Transcription factor Sp3(SP3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6670
Other Names	Transcription factor Sp3, SPR-2, SP3
Calculated MW	81925
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Nucleus. Nucleus, PML body. Localizes to the nuclear periphery and in nuclear dots when sumoylated. Some localization in PML nuclear bodies.
Tissue Specificity	Ubiquitously expressed.
Source	Eukaryota
Protein Name	Transcription factor Sp3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SP3 (569-599aa NTNDLTHLRVQVVDEEGDQQHQEGKRLRRVA), identical to the related mouse sequence.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Belongs to the Sp1 C2H2-type zinc-finger protein family.

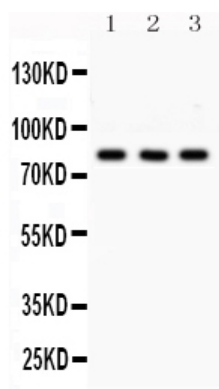
Protein Information

Name	SP3
Function	Transcriptional factor that can act as an activator or repressor depending on isoform and/or post-translational modifications. Binds to GT and GC boxes promoter elements. Competes with SP1 for the GC-box promoters. Weak activator of transcription but can activate a number of genes involved in different processes such as cell-cycle regulation, hormone-induction and house-keeping.
Cellular Location	Nucleus. Nucleus, PML body. Note=Localizes to the nuclear periphery and in nuclear dots when sumoylated. Some localization in PML nuclear bodies
Tissue Location	Ubiquitously expressed.

Background

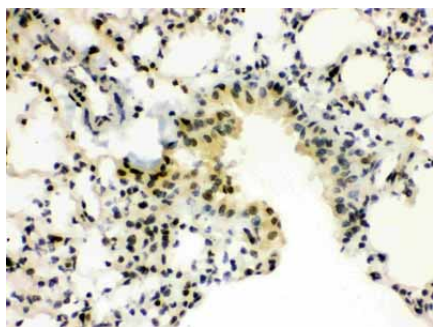
Sp3 transcription factor, also known as SP3, refers to both a protein and the gene it is encoded by. This gene belongs to a family of Sp1 related genes that encode transcription factors that regulate transcription by binding to consensus GC- and GT-box regulatory elements in target genes. And this protein contains a zinc finger DNA-binding domain and several transactivation domains, and has been reported to function as a bifunctional transcription factor that either stimulates or represses the transcription of numerous genes. Transcript variants encoding different isoforms have been described for this gene, and one has been reported to initiate translation from a non-AUG (AUA) start codon. Additional isoforms, resulting from the use of alternate downstream translation initiation sites, have also been noted. A related pseudogene has been identified on chromosome 13.

Images

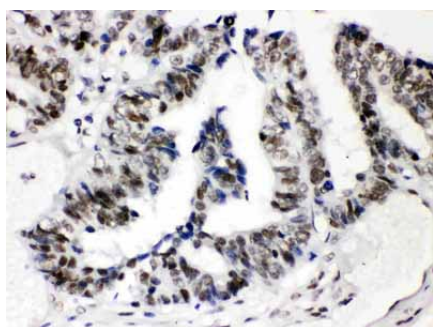
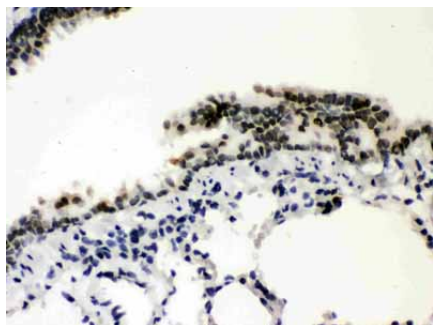


Anti- SP3 Picoband antibody, ABO12196, Western blotting
All lanes: Anti SP3 (ABO12196) at 0.5ug/ml
Lane 1: PC-12 Whole Cell Lysate at 40ug
Lane 2: HEPA Whole Cell Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Predicted bind size: 82KD
Observed bind size: 82KD

Anti- SP3 Picoband antibody, ABO12196, IHC(P)
IHC(P): Mouse Lung Tissue



Anti- SP3 Picoband antibody, ABO12196, IHC(P)IHC(P):
Rat Lung Tissue



Anti- SP3 Picoband antibody, ABO12196, IHC(P)IHC(P):
Human Intestinal Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.