

Anti-SP3 Picoband Antibody
Catalog # ABO12196**Specification**

Anti-SP3 Picoband Antibody - 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.

Anti-SP3 Picoband Antibody - Additional Information

Gene ID 6670

Other Names

Transcription factor Sp3, SPR-2, SP3

Calculated MW

81925 MW KDa

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.

Protein Name

Transcription factor Sp3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

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

Sequence Similarities

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

Anti-SP3 Picoband Antibody - 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

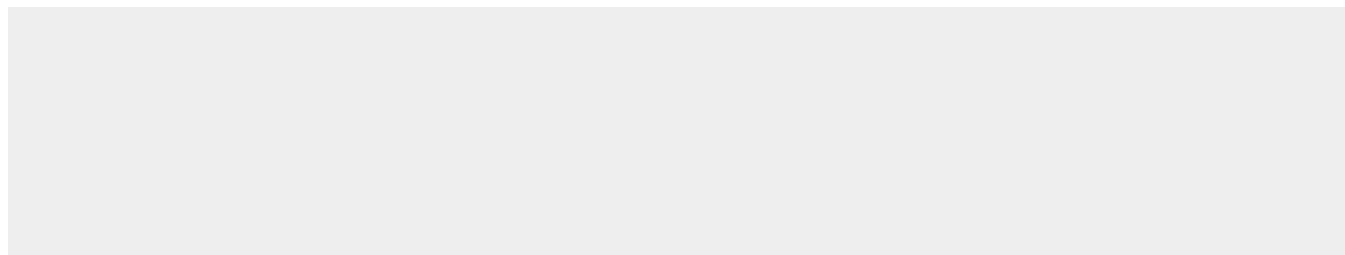
Tissue Location

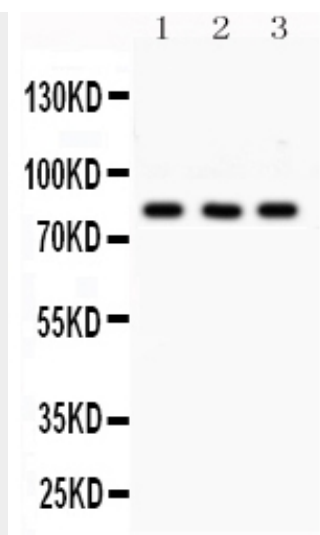
Ubiquitously expressed.

Anti-SP3 Picoband Antibody - Protocols

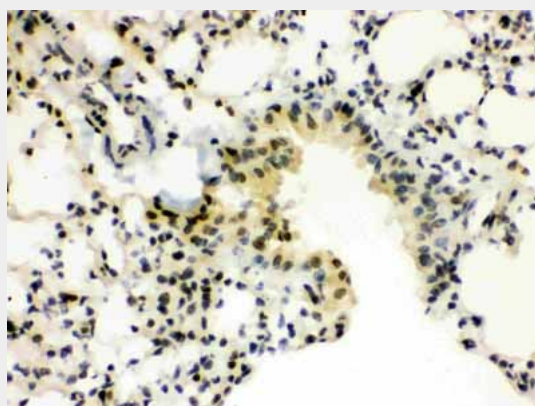
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

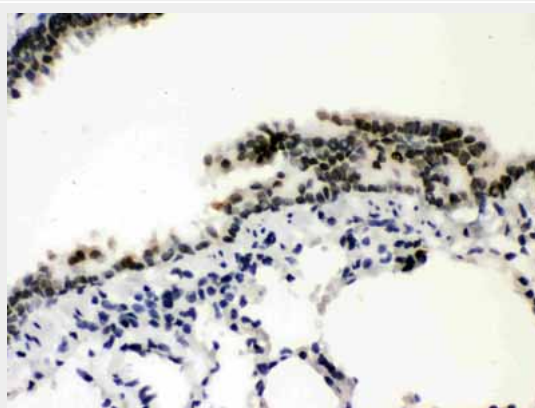
Anti-SP3 Picoband Antibody - Images



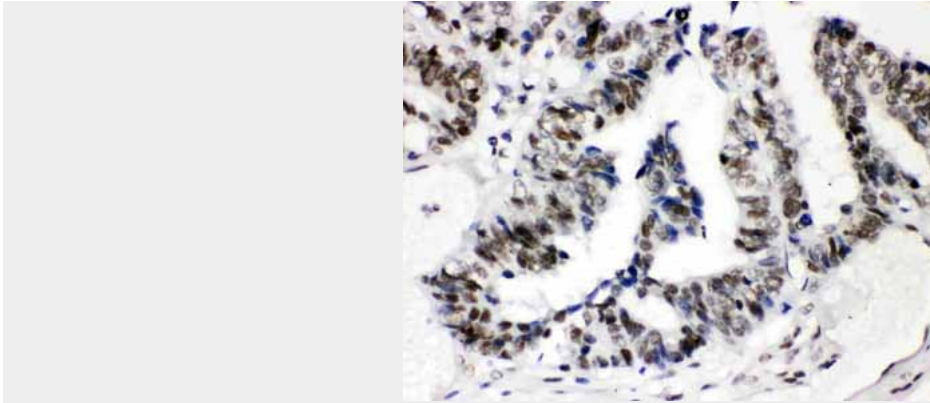
Anti- SP3 Picoband antibody, ABO12196, Western blotting All lanes: Anti SP3 (ABO12196) at 0.5ug/ml
Lane 1: PC-12 Whole Cell Lysate at 40ug
Lane 2: HEPA Whole Cell Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Predicted bind size: 82KD
Observed bind size: 82KD



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

Anti-SP3 Picoband Antibody - 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.