

## Anti-WISP1 Antibody

Catalog Number: PA2089

### About WISP1

WISP1 (WNT1-Inducible Signaling Pathway Protein 1), also known as CCN4, is a matricellular protein that in humans is encoded by the WISP1 gene. WISP1 is induced by WNT1 and belongs to the CCN family, which includes connective tissue growth factor, cysteine-rich-61, and nephroblastoma overexpressed (Tanaka et al., 2001). By use of radiation hybrid mapping panels, Pennica et al. (1998) mapped the WISP1 to chromosome 8q24.1-q24.3, roughly 4 Mb distal to MYC. Pennica et al. (1998) found that 2 distinct systems demonstrated that WISP1 induction was associated with expression of WNT1. WISP1 genomic DNA was amplified in colon cancer cell lines and in human colon tumors, and its RNA was overexpressed in 84% of tumors examined compared with patient-matched normal mucosa.

### Overview

Product Name	Anti-WISP1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-WISP1 Antibody catalog # PA2089. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O95388

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human WISP1, different from the related mouse and rat sequences by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse, Rat</p> <p>Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, By Heat</p>

## Anti-WISP1 Antibody (PA2089) Images

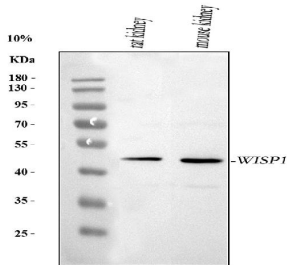


Figure 1. Western blot analysis of WISP1 using anti-WISP1 antibody (PA2089).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat kidney tissue lysates,

Lane 2: mouse kidney tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-WISP1 antigen affinity purified polyclonal antibody (Catalog # PA2089) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for WISP1 at approximately 45 kDa. The expected band size for WISP1 is at 40 kDa.

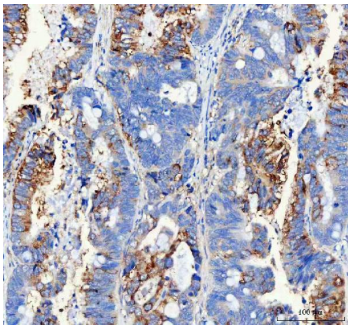


Figure 2. IHC analysis of WISP1 using anti-WISP1 antibody (PA2089).

WISP1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-WISP1 Antibody (PA2089) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

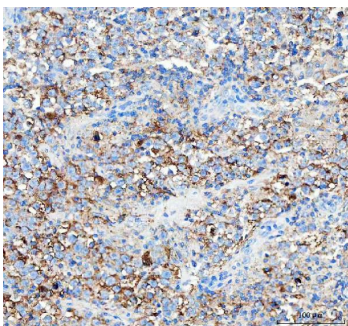


Figure 3. IHC analysis of WISP1 using anti-WISP1 antibody (PA2089).

WISP1 was detected in a paraffin-embedded section of human testicular germ cell tumor tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-WISP1 Antibody (PA2089) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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