# Product datasheet Anti-SMAD3 Antibody Catalog Number: BA4559



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information	
Product Name	Anti-SMAD3 Antibody
Gene Name	SMAD3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Smad3 identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	58 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

#### **Storage**

12 months from date of receipt, -20°C as supplied.

## **Background Information**

Mothers against decapentaplegic homolog 3 also known as SMAD family member 3 or SMAD3 is a protein that in humans is encoded by the SMAD3 gene. SMAD3 is a member of the SMAD family of proteins. It is located in 15q22.33. And it mediates the signals from the transforming growth factor beta ( $TGF-\beta$ ) super family ligands that regulate cell proliferation, differentiation and death. Based on its essential role in TGF beta signaling pathway, SMAD3 has been related with tumor growth in cancer development.

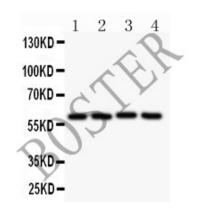
## Reference

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Anti-SMAD3 Antibody被引用在14文献中。

### **Selected Validation Data**



Western blot analysis of SMAD3 using anti-SMAD3 antibody (BA4559). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

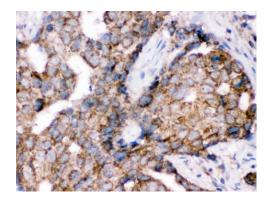
Lane 1: A549 whole cell lysates,

Lane 2: U87 whole cell lysates,

Lane 3: HELA whole cell lysates,

Lane 4: MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SMAD3 antigen affinity purified polyclonal antibody (BA4559) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SMAD3 at approximately 58 kDa. The expected band size for SMAD3 is at 48 kDa.



IHC analysis of SMAD3 using anti-SMAD3 antibody (BA4559). SMAD3 was detected in a paraffin-embedded section of mammary cancer tissue. The tissue section was incubated with rabbit anti-SMAD3 Antibody (BA4559) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.