

## Smad2 Polyclonal Antibody

Catalog No: #21323



Package Size: #21323-1 50ul #21323-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

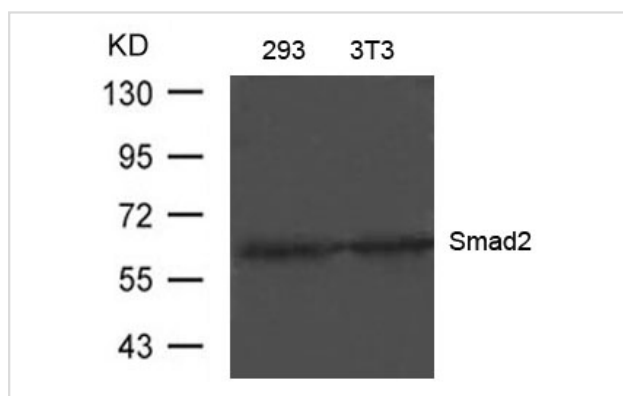
## Description

Product Name	Smad2 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB;IHC;IF;CoIP;ELISA
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total Smad2 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.218~222 (P-E-T-P-P) derived from Human Smad2.
Conjugates	Unconjugated
Target Name	Smad2
Other Names	JV18-1; MADH2; MADR2; Mad-related protein 2; Mothers against DPP homolog 2
Accession No.	Swiss-Prot: Q15796NCBI Protein: NP_001003652.1
Calculated MW	52kDa
SDS-PAGE MW	52-60kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

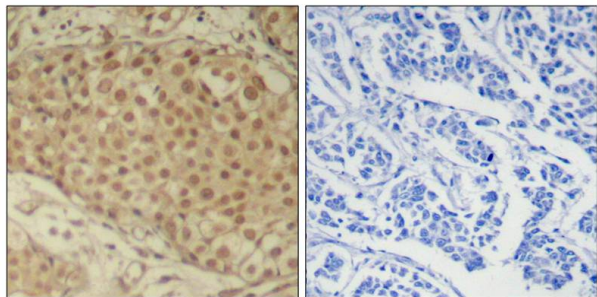
## Application Details

WB 1:500-1:2000; IHC 1:100-1:300; IF 1:200-1:1000; ELISA 1:5000-1:20000; CoIP 1:25-200

## Images



Western blot analysis of extracts from 293 and 3T3 cells using Smad2(Ab-220) Antibody #21323



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Smad2(Ab-220) Antibody #21323(left) or the same antibody preincubated with blocking peptide(right).

## Background

Transcriptional modulator activated by TGF-beta and activin type 1 receptor kinase. SMAD2 is a receptor-regulated SMAD (R-SMAD). May act as a tumor suppressor in colorectal carcinoma.

Sang Gyun Kim et al. (2004) Mol Biol Cell. February; 15(2): 420

## Published Papers

el at., Distribution of Smad mRNA and proteins in the rat brain.In J Chem Neuroanat. On 2018 Jul by Nakajima T, Hata R et al..PMID: 29196107, , (2018)

[PMID:29196107](#)

el at., TGF  $\beta$ 1 mediated Smad signaling pathway and EMT in hepatic fibrosis induced by Nano NiO in vivo and in vitro.In Environ Toxicol on 2020 Apr by Zhang Q, Chang X ,et al..PMID: 31737983, , (2020)

[PMID:31737983](#)

el at., Temporal and regional patterns of Smad activation in the rat hippocampus following global ischemia.In J Neurol Sci on 2014 Feb 15 by Takayuki Nakajima , Masafumi Yanagihara et al ..PMID:24290497, , (2014)

[PMID:24290497](#)

el at., High glucose increases Cdk5 activity in podocytes via transforming growth factor- $\epsilon$ Y1 signaling pathway.In Exp Cell Res on 2014 Aug 15 by Yue Zhang, Hongbo Li et al..PMID: 24768698, , (2014)

[PMID:24768698](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.