

Datasheet for ABIN7251286
anti-SMAD4 antibody



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2 Images

Overview

Quantity:	200 µL
Target:	SMAD4
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMAD4 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthesized peptide derived from the N-terminal region of human Smad4
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

Target Details

Target:	SMAD4
Alternative Name:	SMAD4 (SMAD4 Products)
Background:	This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric

Target Details

complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome. SMAD4 (SMAD Family Member 4) is a Protein Coding gene. Diseases associated with SMAD4 include Myhre Syndrome and Polyposis, Juvenile Intestinal. Among its related pathways are PEDF Induced Signaling and Validated targets of C-MYC transcriptional repression. GO annotations related to this gene include transcription factor activity, sequence-specific DNA binding and sequence-specific DNA binding. An important paralog of this gene is SMAD9.

Molecular Weight:	Observed_MW: 60 kDa Calculated_MW: 60 kDa
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UniProt:	Q13485
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Pathways:	Cell Division Cycle , Chromatin Binding , Autophagy
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Application Details

Application Notes:	IHC 1:100-1:300, IF 1:200-1:1000, ELISA 1:10000
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Concentration:	1 mg/mL
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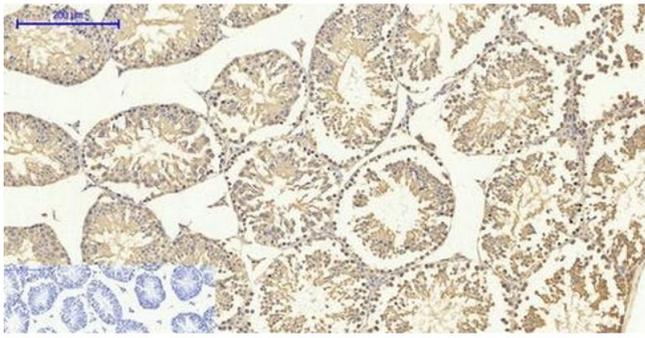
Buffer:	PBS with 0.02 % sodium azide, 0.5 % BSA and 50 % glycerol, pH 7.4
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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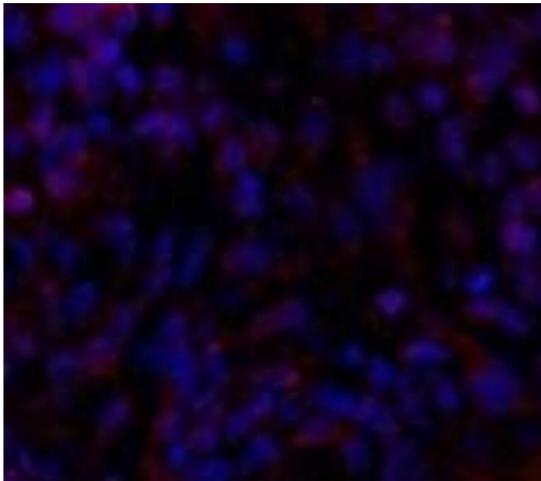
Storage:	-20 °C
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Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.
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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded Mouse testis tissue using Smad4 Polyclonal Antibody at dilution of 1:200.



Immunofluorescence

Image 2. Immunofluorescence analysis of Rat lung tissue using Smad4 Polyclonal Antibody at dilution of 1:200.