SMAD4 Polyclonal Antibody

catalog number: E-AB-34159

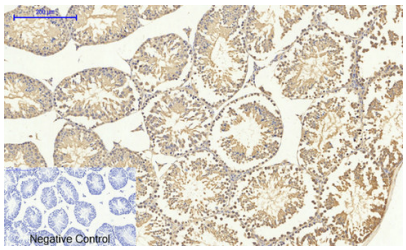
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

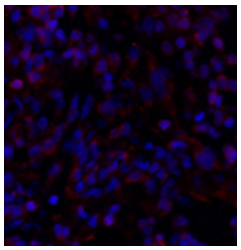
Reactivity	Human;Mouse;Rat;Monkey
Immunogen	Synthesized peptide derived from the N-terminal region of human Smad4
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Buffer	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol.

Applications	Recommended Dilution
IHC	1:100-1:300
IF	1:200-1:1000

Data



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



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

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

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 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.

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