

[KD Validated] Smad4 Rabbit pAb

Catalog No.: A5657SP

15 Publications

Basic Information

Observed MW

70 kDa

Calculated MW

60 kDa

Category

Primary antibody

Applications

WB, IP, IHC-P, ChIP, CUT&Tag, ELISA

Cross-Reactivity

Human, Mouse, Rat

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 transforming growth factor (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 protein acts as a tumor suppressor and inhibits epithelial cell proliferation. It may also have an inhibitory effect on tumors by reducing angiogenesis and increasing blood vessel hyperpermeability. The encoded protein is a crucial component of the bone morphogenetic protein signaling pathway. 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.

Recommended Dilutions

WB 1:1000 - 1:10000**IP** 0.5 µg - 4 µg antibody for
400 µg - 600 µg extracts of
whole cells**IHC-P** 1:500 - 1:2000**ChIP** 5 µg antibody for 10 µg - 15
µg of Chromatin**CUT&Tag** 10⁵ cells /1 µg**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.

Immunogen Information

Gene ID

4089

Swiss Prot

Q13485

Immunogen

This information is considered to be commercially sensitive.

Synonyms

JIP; DPC4; MADH4; MYHRS; Smad4

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn
