

Smad4 Rabbit Polyclonal Antibody



CAB5657

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

63kDa

Calculated MW:

60kDa

Applications:

WB IHC IF

Reactivity:

Human, Mouse, Rat

Antibody Information

Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50
- 1:200 IF 1:50 - 1:200

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein 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.

Immunogen information

Gene ID:

4089

Uniprot

Q13485

Synonyms:

DPC4; JIP; MADH4; MYHRS; Smad4; SMAD4

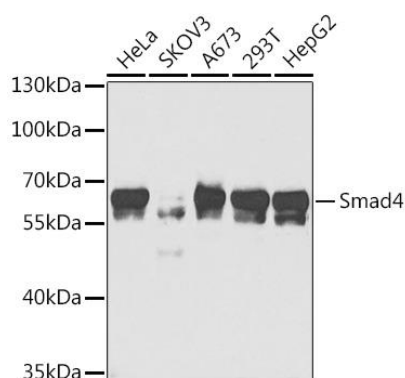
Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 160-450 of human Smad4 (NP_005350.1).

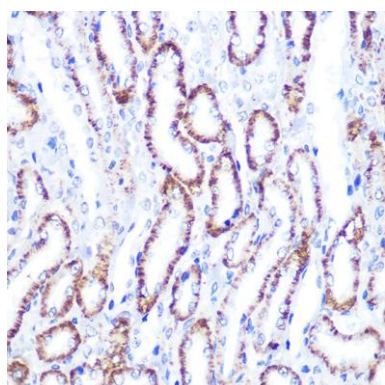
Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

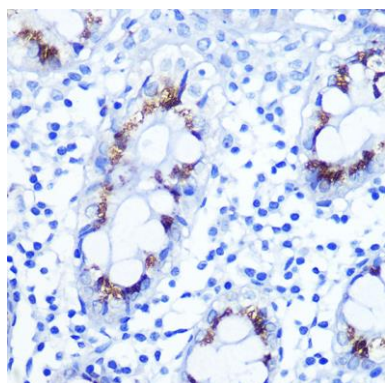
Product Images



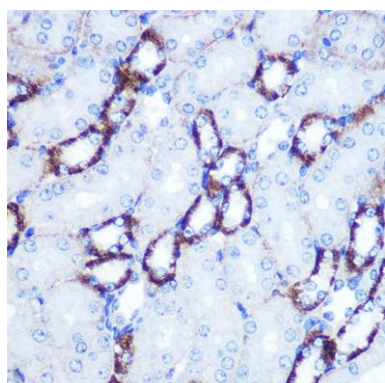
Western blot analysis of extracts of various cell lines, using Smad4 antibody (CAB5657) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 30s.



Immunohistochemistry of paraffin-embedded rat kidney using Smad4 Rabbit pAb (CAB5657) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human colon using Smad4 Rabbit pAb (CAB5657) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse kidney using Smad4 Rabbit pAb (CAB5657) at dilution of 1:100 (40x lens).