

# Product Data Sheet

## Smad4 Antibody

Tested Species Reactivity	
Human (Hu)	
Mouse (Ms)	
Rat (Rt)	
Non-human primate (Nhp)	

Tested Applications	Dilution *
Western Blot (WB)	1:1000
Immunofluorescence (IF)	Assay Dependent
ChIP assay (ChIP)	1:50

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details	
<b>Catalog Number:</b>	PA5-16191
<b>Size:</b>	100 ul
<b>Class:</b>	Polyclonal
<b>Type:</b>	Antibody
<b>Clone:</b>	
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	Synthetic peptide corresponding to the residues surrounding Pro278 of human Smad4

Form Information	
<b>Form:</b>	Liquid
<b>Purification:</b>	Antigen affinity chromatography
<b>Storage Buffer:</b>	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/ml BSA, 50% glycerol
<b>Preservative:</b>	no preservative
<b>Storage Conditions:</b>	-20°C

Product Specific Information	General Information
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It is not recommended to aliquot this antibody.

This antibody was originally validated as part of a Thermo Scientific Cellomics High Content Screening Kit. The antibody sold separately may have slightly different performance and may need to be further optimized for the best results.

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.

This product is for In Vitro experimental use only. Not for resale without express authorization.

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