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Product Data Sheet

Smad3 Antibody (F.701.10)

(This product has been discontinued.)

Tested Species Reactivity
Human (Hu)
Mouse (Ms)
Rat (Rt)
Non-human primate (Nhp)
Bovine (Bv)
Xenopus laevis (Xl)
Zebrafish (Zf)

Tested Applications	Dilution *
Western Blot (WB)	1:1000
Immunofluorescence (IF)	1:100
Flow Cytometry (FACS)	1:200
Immunoprecipitation (IP)	1:100
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	
Catalog Number:	MA5-11194
Size:	100 ul
Class:	Monoclonal
Type:	Antibody
Clone:	F.701.10
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide (KLH-coupled) corresponding to residues at the amino terminus of Smad3.

Form Information	
Form:	Liquid
Purification:	Affinity chromatography
Storage Buffer:	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/ml BSA, 50% glycerol
Preservative:	<0.02% sodium azide
Storage Conditions:	-20° C, Avoid Freeze/Thaw Cycles

Product Specific Information

MA5-11194 reacts with human, mouse, non-human primate and rat. Predicted to react with xenopus, zebrafish and bovine based on sequence homology.

Anti-Smad3 Monoclonal Antibody MA5-11194 has been tested and validated in use for western blot, immunoprecipitation, immunofluorescence, flow cytometry and ChIP applications.

A molecular weight of approximately 52 kDa is expected.

General Information

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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