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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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