

# Product Datasheet

## Smad4 Antibody NBP1-84992

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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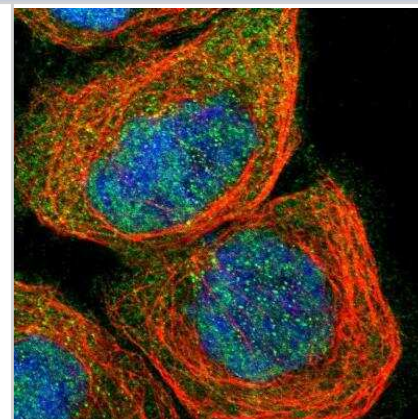
**NBP1-84992****Smad4 Antibody**

| <b>Product Information</b>         |                                                                                                                                                                                                                                                                                                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Size</b>                   | 100 ul                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>               | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.                                                                                                                                                                                    |
| <b>Storage</b>                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                                                                                                                                                                                                              |
| <b>Clonality</b>                   | Polyclonal                                                                                                                                                                                                                                                                                          |
| <b>Preservative</b>                | 0.02% Sodium Azide                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                      | Immunogen affinity purified                                                                                                                                                                                                                                                                         |
| <b>Buffer</b>                      | PBS (pH 7.2) and 40% Glycerol                                                                                                                                                                                                                                                                       |
| <b>Product Description</b>         |                                                                                                                                                                                                                                                                                                     |
| <b>Host</b>                        | Rabbit                                                                                                                                                                                                                                                                                              |
| <b>Gene ID</b>                     | 4089                                                                                                                                                                                                                                                                                                |
| <b>Gene Symbol</b>                 | SMAD4                                                                                                                                                                                                                                                                                               |
| <b>Species</b>                     | Human, Mouse                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>                   | This antibody was developed against Recombinant Protein corresponding to amino acids:AFDLKCDSVCVNPYHYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQTIQHPPSNRASTETYSTPALLAPSESATSTANFPNIPVASTSQPASILGGSHSEGLLQI                                                                                     |
| <b>Product Application Details</b> |                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>                | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation-exo-Seq                                                                                                                                                    |
| <b>Recommended Dilutions</b>       | Western Blot 1.0 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200, Chromatin Immunoprecipitation-exo-Seq 1-10ug per reaction                                                                              |
| <b>Application Notes</b>           | For IHC-Paraffin, HIER pH 6 retrieval is recommended. Immunocytochemistry/Immunofluorescence Fixation Permeabilization: Use PFA/Triton X-100. The antibody solution should be gently mixed before use. Optimal concentrations and conditions for each application should be determined by the user. |

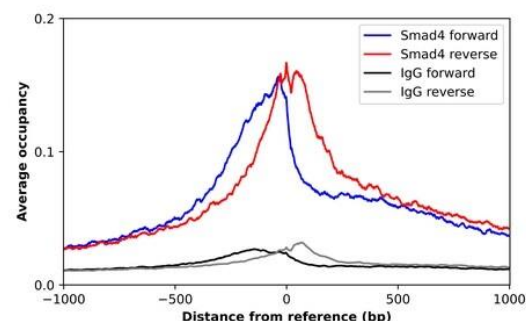


## Images

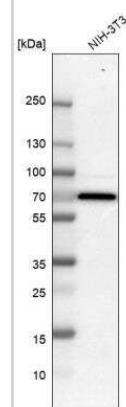
Immunofluorescence: Smad4 Antibody [NBP1-84992] - Immunofluorescent staining of human cell line A-431 shows localization to nucleoplasm, cytosol & centrosome.



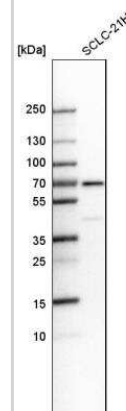
ChIP-Exo-Seq composite graph for Anti-SMAD4 tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared to a non-specific IgG control and precisely reveals its structural organization around the binding site. Data generated by Prof. B. F. Pugh's Lab at Cornell University.



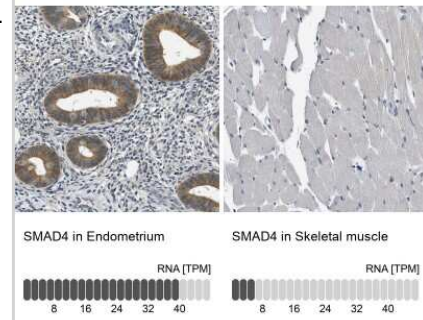
Western Blot: Smad4 Antibody [NBP1-84992] - Western blot analysis in mouse cell line NIH-3T3.



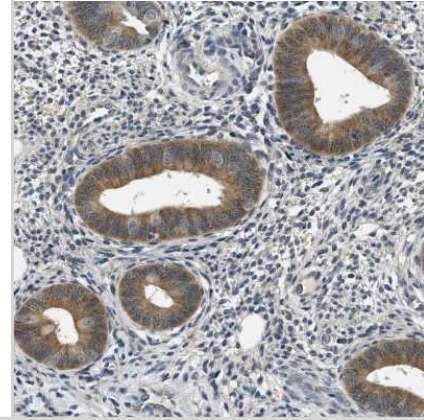
Western Blot: Smad4 Antibody [NBP1-84992] - Western blot analysis in human cell line SCLC-21H.



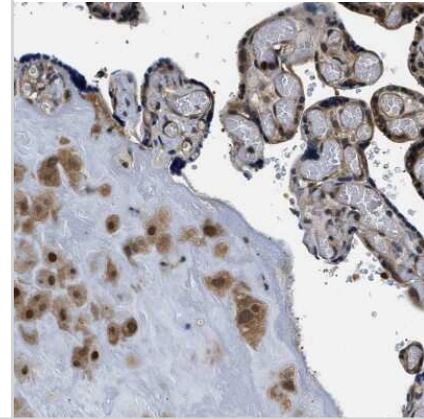
Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] - Staining in human endometrium and skeletal muscle tissues using NBP1-84992 antibody. Corresponding SMAD4 RNA-seq data are presented for the same tissues.



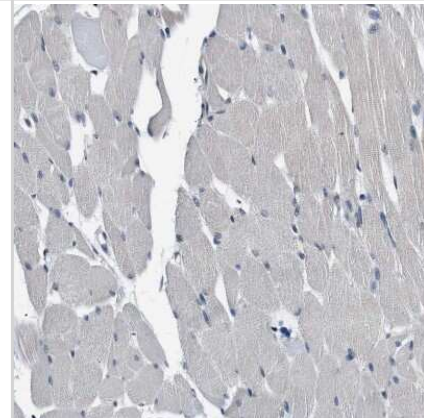
Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] - Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.



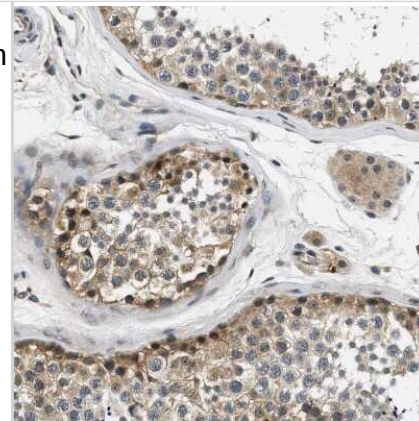
Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] - Staining of human placenta shows moderate to strong cytoplasmic and nuclear positivity in trophoblastic and decidual cells.



Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] -  
Staining of human testis shows moderate cytoplasmic positivity in cells in  
seminiferous ducts.





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### **Products Related to NBP1-84992**

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|               |                                                     |
|---------------|-----------------------------------------------------|
| HAF008        | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160        | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891    | Rabbit IgG Isotype Control                          |
| NBP2-24951PEP | Smad4 Antibody Blocking Peptide                     |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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