

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

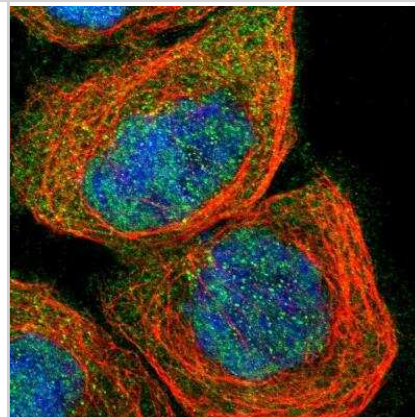
Smad4 Antibody

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Host	Rabbit
Gene ID	4089
Gene Symbol	SMAD4
Species	Human, Mouse
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids:AFDLKCDSVCVNPYHYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQTIQHPPSNRASTETYSTPALLAPSESATSTANFPNIPVASTSQPASILGGSHSEGLLQI
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation-exo-Seq
Recommended Dilutions	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
Application Notes	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.

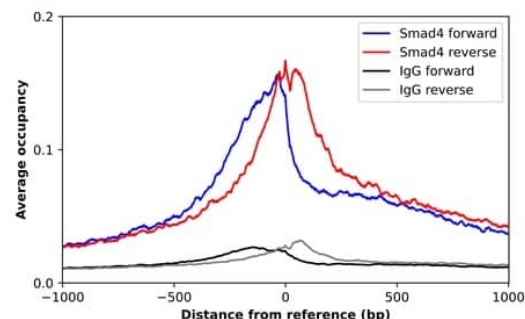


Images

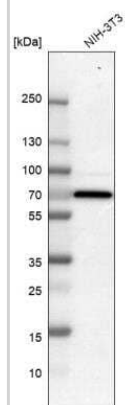
Immunofluorescence: Smad4 Antibody [NBP1-84992] - Immunofluorescent staining of human cell line A-431 shows localization to nucleoplasm, cytosol & centrosome.



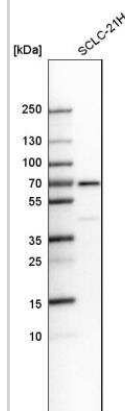
ChIP-Exo-Seq composite graph for Anti-SMAD4 tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared 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.



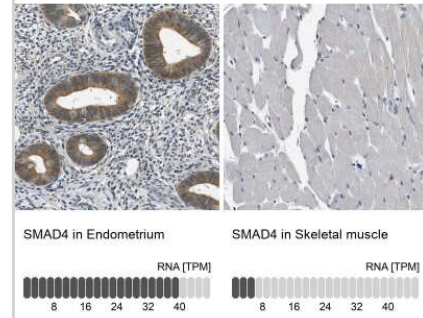
Western Blot: Smad4 Antibody [NBP1-84992] - Western blot analysis in mouse cell line NIH-3T3.



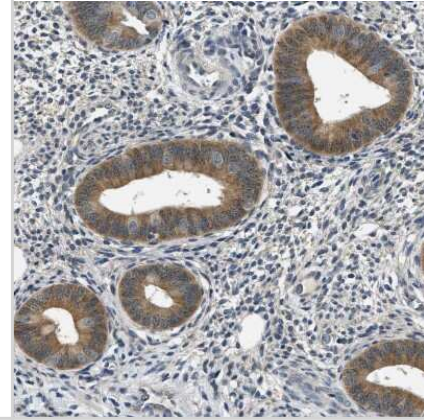
Western Blot: Smad4 Antibody [NBP1-84992] - Western blot analysis in human cell line SCLC-21H.



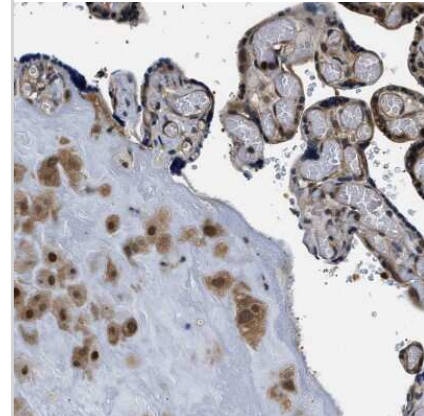
Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] - Staining in human endometrium and skeletal muscle tissues using NBP1-84992 antibody. Corresponding SMAD4 RNA-seq data are presented for the same tissues.



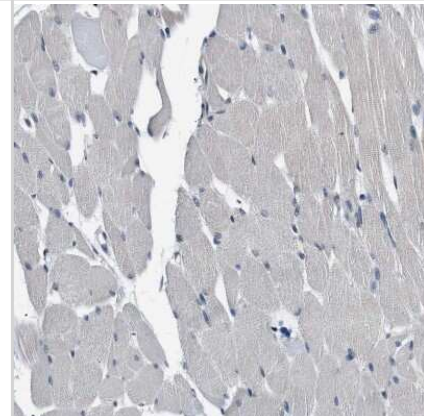
Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] - Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.



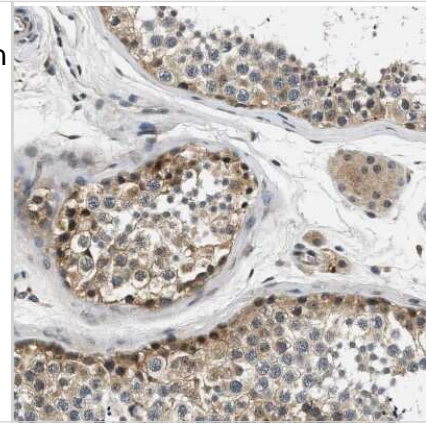
Immunohistochemistry-Paraffin: Smad4 Antibody [NBP1-84992] - Staining of human placenta shows moderate to strong cytoplasmic and nuclear positivity in trophoblastic and decidual cells.



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

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

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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