

# Product Datasheet

## Vimentin Antibody - BSA Free NBP1-85814

Unit Size: 0.1 ml

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

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**NBP1-85814**

Vimentin Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<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>Target Molecular Weight</b>	53.6 kDa

**Product Description**

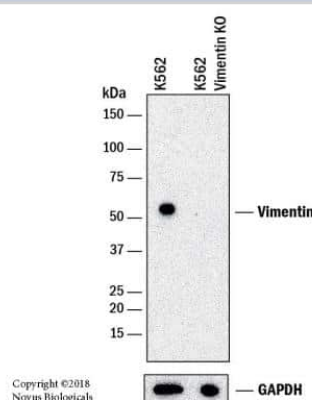
<b>Host</b>	Rabbit
<b>Gene ID</b>	7431
<b>Gene Symbol</b>	VIM
<b>Species</b>	Human, Mouse
<b>Marker</b>	Mesenchymal Cells Marker
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: FANYIDKVRFLFQQNKILLAELEQLKGQGSRLGDL YEEEMRELRRQVDQLTN DKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQDVDNASLARLD LERKVES

**Product Application Details**

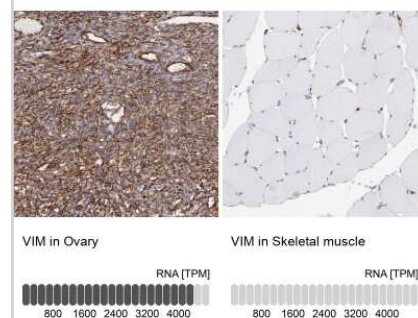
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000 - 1:2500, Knockout Validated
<b>Application Notes</b>	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. IHC-Paraffin HIER pH6 retrieval is recommended.

**Images**

Western Blot: Vimentin Antibody [NBP1-85814] - Western blot shows lysates of K562 human Chronic Myelogenous Leukemia parental cell line and Vimentin knockout (KO) K562 cell line. PVDF membrane was probed with 0.7 ug/mL of Rabbit Anti-Human Vimentin Polyclonal Antibody (Catalog # NBP1-85814) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for Vimentin at approximately 55 kDa (as indicated) in the parental K562 cell line, but is not detectable in the knockout K562 cell line. This experiment was conducted under reducing conditions.



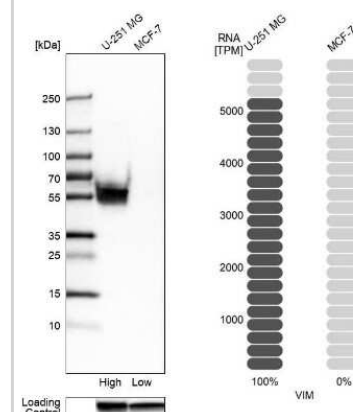
**Immunohistochemistry-Paraffin: Vimentin Antibody [NBP1-85814]** - Analysis in human ovary and skeletal muscle tissues. Corresponding VIM RNA-seq data are presented for the same tissues.



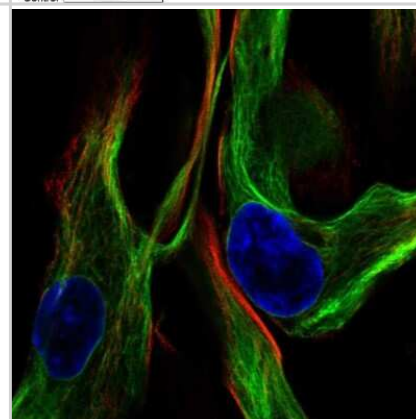
**Simple Western: Vimentin Antibody [NBP1-85814]** - Simple Western lane view shows a specific band for VIM in 0.2 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



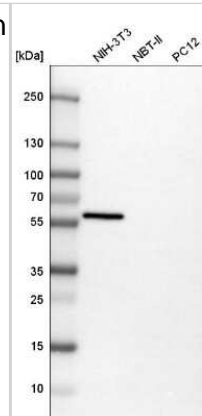
**Western Blot: Vimentin Antibody [NBP1-85814]** - Analysis in human cell lines U-251MG and MCF-7 using anti-VIM antibody. Corresponding VIM RNA-seq data are presented for the same cell lines. Loading control: anti-GAPDH.



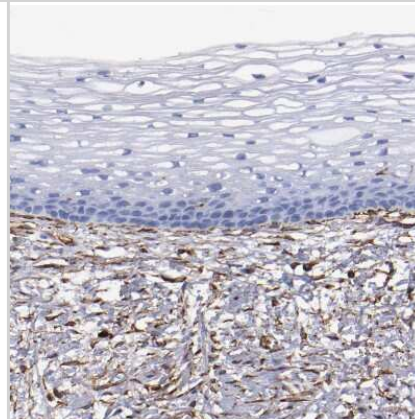
**Immunocytochemistry/Immunofluorescence: Vimentin Antibody [NBP1-85814]** - Staining of human cell line ASC TERT1 shows localization to intermediate filaments. Antibody staining is shown in green.



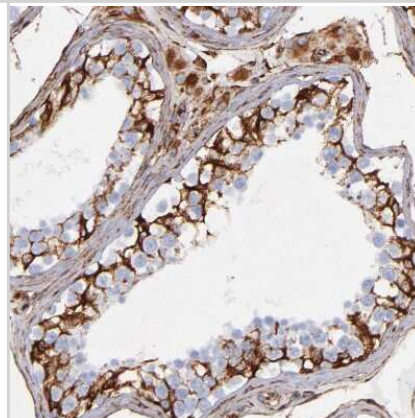
Western Blot: Vimentin Antibody [NBP1-85814] - Western blot analysis in mouse cell line NIH-3T3, rat cell line NBT-II and rat cell line pC12.



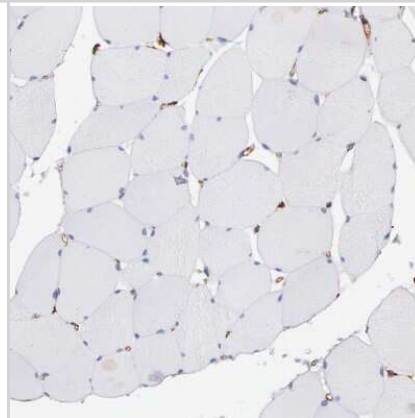
Immunohistochemistry-Paraffin: Vimentin Antibody [NBP1-85814] - Staining of human cervix, uterine shows moderate cytoplasmic positivity in stromal cells.



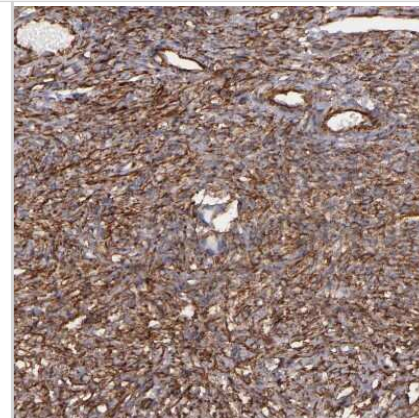
Immunohistochemistry-Paraffin: Vimentin Antibody [NBP1-85814] - Staining of human testis shows strong membranous positivity in cells in seminiferous ducts.



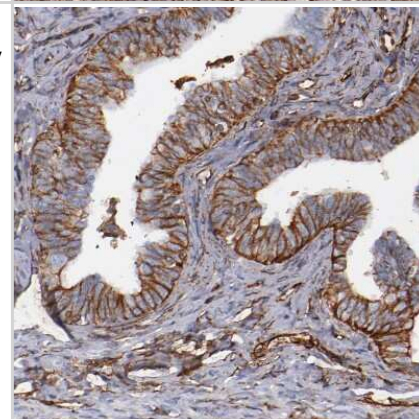
Immunohistochemistry-Paraffin: Vimentin Antibody [NBP1-85814] - Staining of human skeletal muscle shows no positivity in myocytes.



Immunohistochemistry-Paraffin: Vimentin Antibody [NBP1-85814] - Staining of human ovary shows moderate cytoplasmic positivity in stromal cells.



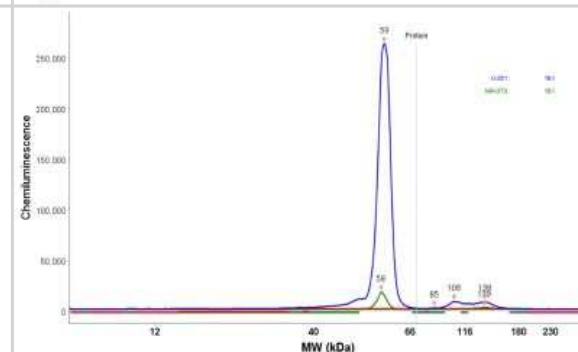
Immunohistochemistry-Paraffin: Vimentin Antibody [NBP1-85814] - Staining of human fallopian tube shows moderate membranous positivity in glandular cells.



Simple Western: Vimentin Antibody [NBP1-85814] - Simple Western lane view shows a specific band for VIM in 0.2 mg/ml of U-251MG lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: Vimentin Antibody [NBP1-85814] - Electropherogram image(s) of corresponding Simple Western lane view. Vimentin antibody was used at 1:20 dilution on NIH-3T3 lysates(s).



## Publications

Lopez-Rodriguez AB, Acaz-Fonseca E, Viveros MP et al. Changes in Cannabinoid Receptors, Aquaporin 4 and Vimentin Expression after Traumatic Brain Injury in Adolescent Male Mice. Association with Edema and Neurological Deficit. PLoS One 2015-01-01 [PMID: 26039099] (WB, Mouse)

YAMASAKI T, SEKI N, YAMADA Y et al. Tumor suppressive microRNA-138 contributes to cell migration and invasion through its targeting of vimentin in renal cell carcinoma. Int J Oncol 2012-09-01 [PMID: 22766839]

Stadler C, Hjelmare M, Neumann B et al. Systematic validation of antibody binding and protein subcellular localization using siRNA and confocal microscopy. J Proteomics 2012-04-03 [PMID: 22361696]





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### **Products Related to NBP1-85814**

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NBP1-85814PEP	Vimentin Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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