

# Product Datasheet

## NDRG1 Antibody - BSA Free

### NBP1-86636

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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**NBP1-86636**

NDRG1 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>        | Affinity purified  |
| <b>Buffer</b>        | PBS (pH 7.2) and 40% Glycerol  |

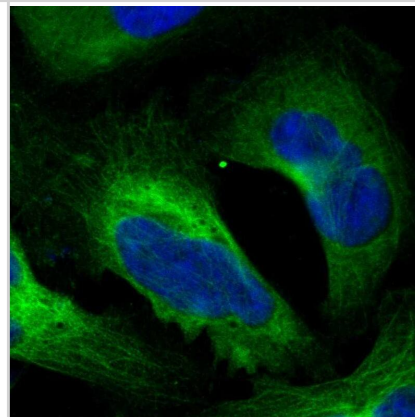
| Product Description |   |
|---------------------|---|
| <b>Description</b>  | Novus Biologicals Rabbit NDRG1 Antibody - BSA Free (NBP1-86636) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-NDRG1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| <b>Host</b>         | Rabbit  |
| <b>Gene ID</b>      | 10397   |
| <b>Gene Symbol</b>  | NDRG1   |
| <b>Species</b>      | Human, Rat  |
| <b>Immunogen</b>    | This antibody was developed against Recombinant Protein corresponding to amino acids:<br>INVNPCAEGWMDWAASKISGWTQALPDMVVSHLFGKEEMQSNVEVVHTYRQ<br>HIVNDMNPGNLHLFINAYNSRRDLEIERPMPGTHVTQLQCPALLVVGDS SPAVD<br>AVVECNSKLDPTKTLL                         |

| Product Application Details  |  |
|------------------------------|--|
| <b>Applications</b>          | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry   |
| <b>Recommended Dilutions</b> | Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200 |
| <b>Application Notes</b>     | IHC-P, Retrieval method: HIER pH6, ICC/IF, Fixation/Permeabilization: PFA/Triton X-100.  |

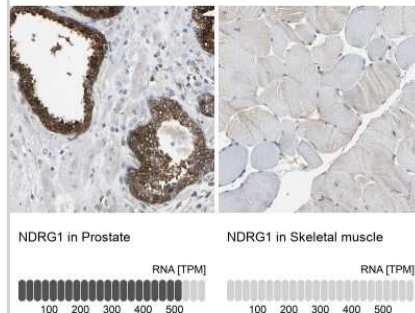


## Images

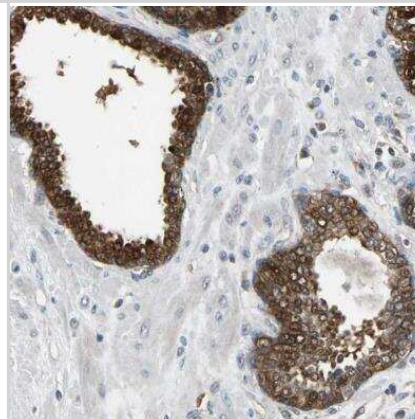
Staining of human cell line U-2 OS shows localization to cytosol & microtubules.



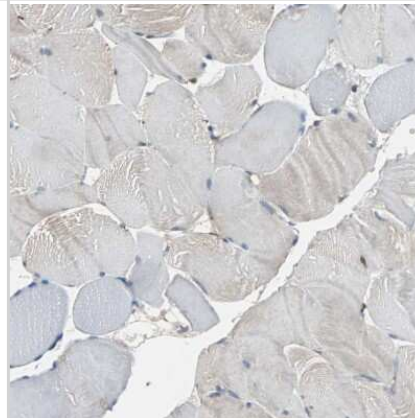
Immunohistochemistry-Paraffin: NDRG1 Antibody [NBP1-86636] - Analysis in human prostate and skeletal muscle tissues. Corresponding NDRG1 RNA-seq data are presented for the same tissues.



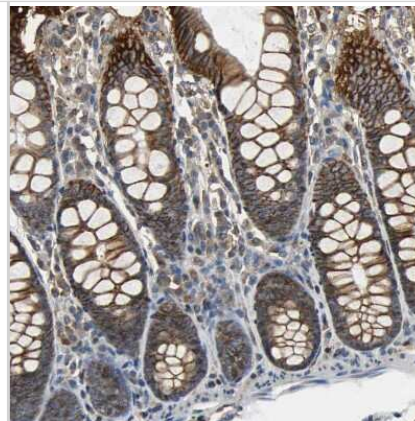
Immunohistochemistry-Paraffin: NDRG1 Antibody [NBP1-86636] - Staining of human prostate shows strong membranous positivity in glandular cells.



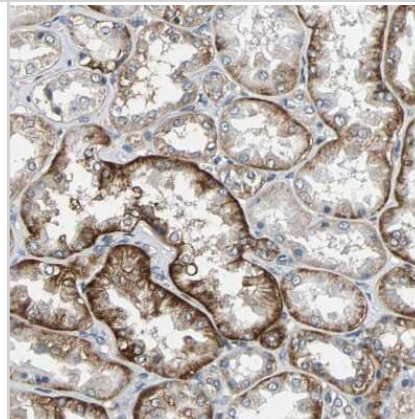
Immunohistochemistry-Paraffin: NDRG1 Antibody [NBP1-86636] - Staining of human skeletal muscle shows no membranous positivity in myocytes as expected.



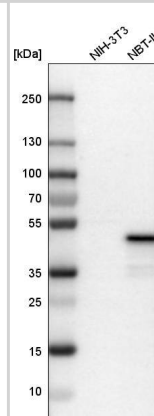
Immunohistochemistry-Paraffin: NDRG1 Antibody [NBP1-86636] - Staining of human colon shows strong membranous positivity in glandular cells.



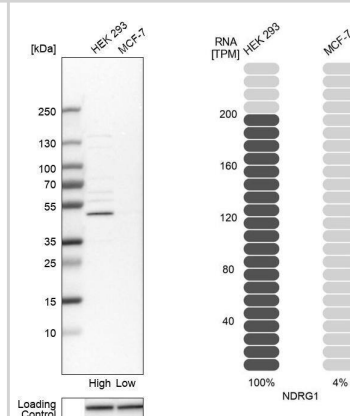
Immunohistochemistry-Paraffin: NDRG1 Antibody [NBP1-86636] - Staining of human kidney shows moderate membranous positivity in cells in tubules.



Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



Analysis in human cell lines HEK293 and MCF-7 using Anti-NDRG1 antibody. Corresponding NDRG1 RNA-seq data are presented for the same cell lines. Loading control: Anti-HSP90B1.



## Publications

Rakopoulos P Investigating the role of H3. 3K27M during cellular transformation and differentiation. Thesis 2020-01-01 (WB, Mouse)

Mao Z, Sun J, Feng B et al. The Metastasis Suppressor, N-myc Downregulated Gene 1 (NDRG1), Is a Prognostic Biomarker for Human Colorectal Cancer. PLoS One 2013-01-01 [PMID: 23874544]

Lane DJ, Saletta F, Rahmanto YS et al. N-myc Downstream Regulated 1 (NDRG1) Is Regulated by Eukaryotic Initiation Factor 3a (eIF3a) during Cellular Stress Caused by Iron Depletion. PLoS One 2013-01-01 [PMID: 23437357]

Drogemuller C, Becker D, Kessler B et al. A deletion in the N-myc downstream regulated gene 1 (NDRG1) gene in Greyhounds with polyneuropathy. PLoS One 2010-06-01 [PMID: 20582309]

Schilling SH, Hjelmeland AB, Radloff DR et al. NDRG4 Is Required for Cell Cycle Progression and Survival in Glioblastoma Cells. J Biol Chem 2009-09-11 [PMID: 19592488]





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### **Products Related to NBP1-86636**

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|               |   |
|---------------|---|
| NBP1-86636PEP | NDRG1 Recombinant Protein Antigen                   |
| NBP2-33376H   | Blue Marker Antibody (6F4-F6) [HRP]                 |
| 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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