



Catalog: OM215100

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# NDRG1 Antibody (N-term)

Catalog: OM215100

☐ 100ug

## Product profile

|               |                         |
|---------------|-------------------------|
| Product name  | NDRG1 Antibody (N-term) |
| Antibody Type | Primary Antibodies      |

## Key Feature

|                     |             |
|---------------------|-------------|
| Clonality           | Polyclonal  |
| Isotype             | Ig          |
| Host Species        | Rabbit      |
| Tested Applications | WB ,IHC ,FC |
| Species Reactivity  | Human       |
| Concentration       | 1 mg/ml     |
| Purification        |             |

## Target Information

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Synonyms        | CAP43, DRG1, RTP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alternative Names    | NDRG1; CAP43; DRG1; RTP; Protein NDRG1; Differentiation-related gene 1 protein; N-myc downstream-regulated gene 1 protein; Nickel-specific induction protein Cap43; Reducing agents and tunicamycin-responsive protein; Rit42                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Molecular Weight(MW) | 42835 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Function             | Stress-responsive protein involved in hormone responses, cell growth, and differentiation. Acts as a tumor suppressor in many cell types. Necessary but not sufficient for p53/TP53- mediated caspase activation and apoptosis. Has a role in cell trafficking, notably of the Schwann cell, and is necessary for the maintenance and development of the peripheral nerve myelin sheath Required for vesicular recycling of CDH1 and TF. May also function in lipid trafficking. Protects cells from spindle disruption damage. Functions in p53/TP53-dependent mitotic spindle checkpoint. Regulates microtubule dynamics and maintains euploidy |
| Tissue Specificity   | Ubiquitous; expressed most prominently in placental membranes and prostate, kidney, small intestine, and ovary tissues. Also expressed in heart, brain, skeletal muscle, lung, liver and pancreas. Low levels in perip                                                                                                                                                                                                                                                                                                                                                                                                                            |

heral blood leukocytes and in tissues of the immune system. Expressed mainly in epithelial cells. Also found in Schwann cells of peripheral neurons. Reduced expression in adenocarcinomas compared to normal tissues. In colon, prostate and placental membranes, the cells that border the lumen show the highest expression

#### Cellular Localization

Cytoplasm, cytosol. Cytoplasm, cytoskeleton, centrosome. Nucleus. Cell membrane. Note=Mainly cytoplasmic but differentially localized to other regions. Associates with the plasma membrane in intestinal epithelia and lactating mammary gland. Translocated to the nucleus in a p53/TP53-dependent manner In prostate epithelium and placental chorion, located in both the cytoplasm and in the nucleus. No nuclear localization in colon epithelium cells. In intestinal mucosa, prostate and renal cortex, located predominantly adjacent to adherens junctions. Cytoplasmic with granular staining in proximal tubular cells of the kidney and salivary gland ducts. Recruits to the membrane of recycling/sorting and late endosomes via binding to phosphatidylinositol 4-phosphate. Associates with microtubules Colocalizes with TUBG1 in the centrosome. Cytoplasmic location increased with hypoxia. Phosphorylated form found associated with centromeres during S-phase of mitosis and with the plasma membrane

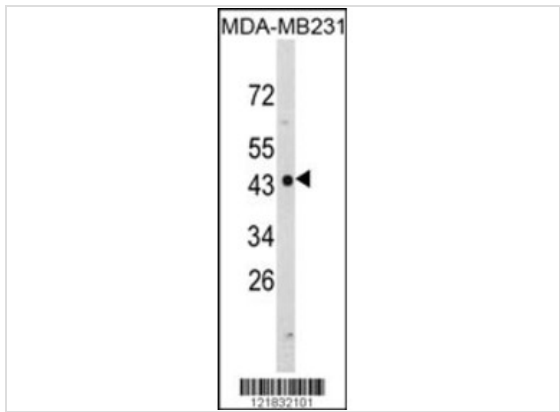
### Database Links

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|             |       |
|-------------|-------|
| Entrez Gene | 10397 |
|-------------|-------|

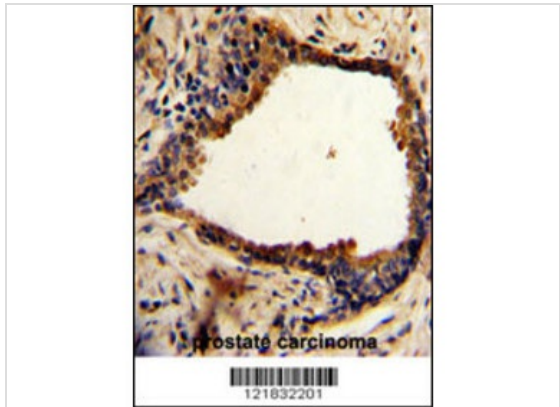
### Application

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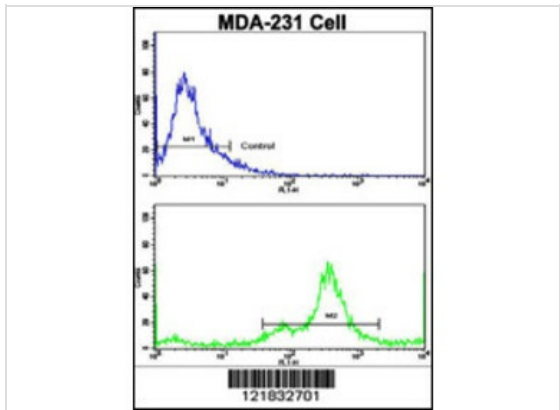
#### Application

Western blot analysis of NDRG1 Antibody (N-term) in MDA-MB231 cell line lysates (35ug/lane). NDRG1 (arrow) was detected using the purified Pab.



#### Application

Formalin-fixed and paraffin-embedded human prostate carcinoma with NDRG1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



#### Application

Flow cytometric analysis of MDA-231 cells using NDRG1 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### Application Notes

WB~~1:100~500 IHC~~1:50~100 FC~~1:10~50:

## Additional Information

|                             |                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>                 | Liquid                                                                                                                                                                       |
| <b>Storage Instructions</b> | For short-term storage, store at 4° C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.                                        |
| <b>Storage Buffer</b>       | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| <b>Note</b>                 | The product is for research use only, not for use in diagnostic or therapeutic procedures.                                                                                   |

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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

