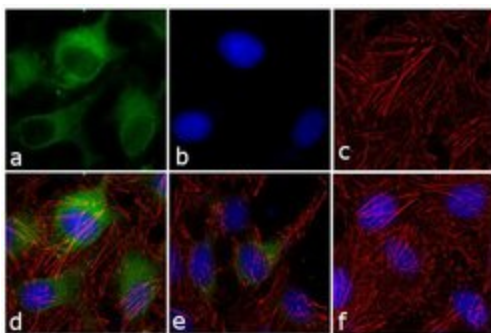


# NDRG1 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the N-terminal region of the human and predicted chimpanzee CAP43 proteins, which differs from predicted bovine by one amino acid change and from mouse and rat by two amino acid changes
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533532

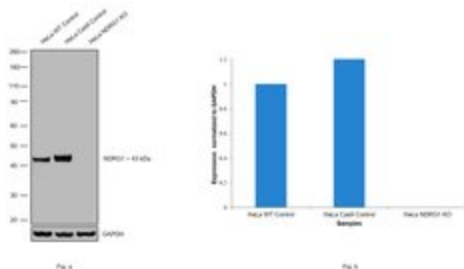
Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	9 Publications
Immunocytochemistry (ICC/IF)	2 µg/mL	2 Publications
Immunoprecipitation (IP)	5 µg	-
Miscellaneous PubMed (Misc)	-	1 Publication

## Advanced Verification Data



### NDRG1 Antibody (42-6200)

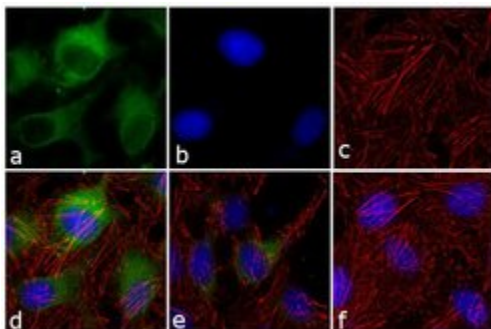
Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Immunofluorescence analysis of CAP43 using anti CAP43 (NDRG1) Polyclonal Antibody (Product # 42-6200) shows increased expression of CAP43 in HeLa cells treated with TNF alpha. Cell treatment validation info.



### NDRG1 Antibody (42-6200)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in NDRG1 KO cell line compared to control cell line using Anti-NDRG1 Polyclonal Antibody (Product # 42-6200). Knockout validation info.

## Product Images For NDRG1 Polyclonal Antibody



### NDRG1 Antibody (42-6200) in ICC/IF

Immunofluorescent analysis of CAP43 was performed using 70% confluent log phase HeLa cells treated with 50 ng of TNF-alpha for 20 minutes. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with CAP43 Rabbit Polyclonal Antibody (Product # 42-6200) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e is untreated cell with less signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on [thermofisher.com](https://thermofisher.com)

## 12 References

### Western Blot (9)

International journal of cancer

#### Upregulation of prostate-derived Ets factor by luteolin causes inhibition of cell proliferation and cell invasion in prostate carcinoma cells.

"Published figure using NDRG1 polyclonal antibody (Product # 42-6200) in Western Blot"

Authors: Tsui KH, Chung LC, Feng TH, Chang PL, Juang HH

**Species**

Human  
Not Applicable

**Dilution**

1:3000  
Not Cited

**Year**

2012

Scientific reports

#### Growth differentiation factor-15: a p53- and demethylation-upregulating gene represses cell proliferation, invasion, and tumorigenesis in bladder carcinoma cells.

"Published figure using NDRG1 polyclonal antibody (Product # 42-6200) in Western Blot"

Authors: Tsui KH, Hsu SY, Chung LC, Lin YH, Feng TH, Lee TY, Chang PL, Juang HH

**Species**

Not Applicable

**Dilution**

Not Cited

**Year**

2015

[View more WB references on thermofisher.com](#)

### Immunocytochemistry (2)

Placenta

#### N-myc downstream-regulated gene 1 (NDRG1) mediates pomegranate juice protection from apoptosis in hypoxic BeWo cells but not in primary human trophoblasts.

"Published figure using NDRG1 polyclonal antibody (Product # 42-6200) in Immunofluorescence"

Authors: Chen B, Zaveri PG, Longtine MS, Nelson DM

**Species**

Human

**Dilution**

Not Cited

**Year**

2015

Cancer letters

#### N-myc downstream-regulated gene 1 downregulates cell proliferation, invasiveness, and tumorigenesis in human oral squamous cell carcinoma.

"42-6200 was used in immunocytochemistry and western blot to determine the role and function of NDRG1 in oral squamous cell carcinoma"

Authors: Lee JC, Chung LC, Chen YJ, Feng TH, Juang HH

**Species**

Human

**Dilution**

1:100

**Year**

2014

### More applications with references on thermofisher.com

### Misc (1)

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