

## ARG63597 anti-NDRG1 antibody

Package: 100 µg, 50 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes NDRG1
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Specificity	The variants (NP_006087.2; NP_001128714.1) encode the same protein
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NDRG1
Species	Human
Immunogen	GNSAGPKSMEVSC, corresponding to C terminal amino acids 382-394 of Human NDRG1.
Conjugation	Un-conjugated
Alternate Names	DRG1; Protein NDRG1; Differentiation-related gene 1 protein; PROXY1; TARG1; RIT42; Reducing agents and tunicamycin-responsive protein; Rit42; CMT4D; RTP; CAP43; N-myc downstream-regulated gene 1 protein; TDD5; HMSNL; NMSL; Nickel-specific induction protein Cap43; NDR1; DRG-1; GC4

### Application Instructions

Application table	Application	Dilution
	IHC-P	0.5 - 2.5 µg/ml
WB	0.1 - 0.3 µg/ml	

**Application Note**  
WB: Recommend incubate at RT for 1h.  
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Background

This gene is a member of the N-myc downregulated gene family which belongs to the alpha/beta hydrolase superfamily. The protein encoded by this gene is a cytoplasmic protein involved in stress responses, hormone responses, cell growth, and differentiation. The encoded protein is necessary for p53-mediated caspase activation and apoptosis. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4D, and expression of this gene may be a prognostic indicator for several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

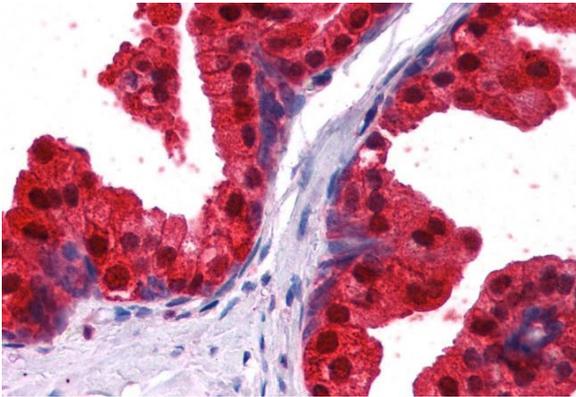
Research Area  
Calculated Mw  
PTM

Cancer antibody; Gene Regulation antibody; Neuroscience antibody

43 kDa

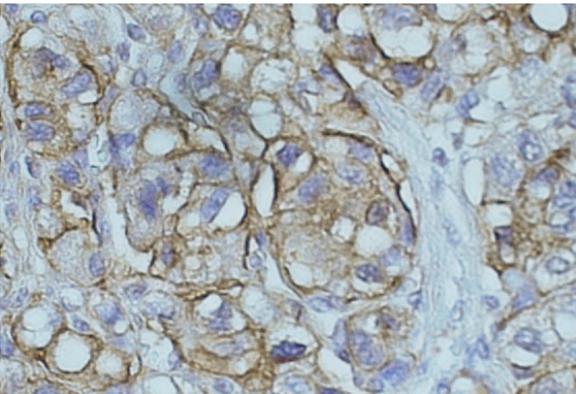
Under stress conditions, phosphorylated in the C-terminal on many serine and threonine residues. Phosphorylated in vitro by PKA. Phosphorylation enhanced by increased intracellular cAMP levels. Homocysteine induces dephosphorylation. Phosphorylation by SGK1 is cell cycle dependent.

## Images



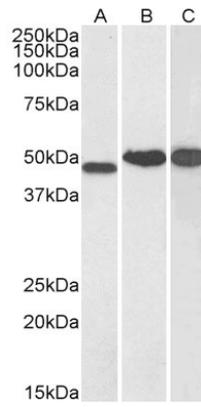
ARG63597 anti-NDRG1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostate tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63597 anti-NDRG1 antibody at 2.5 µg/ml dilution followed by AP-staining.



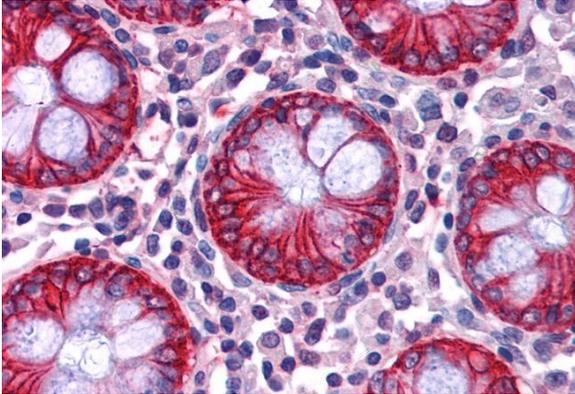
ARG63597 anti-NDRG1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human hepatocellular carcinoma tissue stained with ARG63597 anti-NDRG1 antibody at 0.5 µg/ml dilution.



#### ARG63597 anti-NDRG1 antibody WB image

Western blot: 35  $\mu$ g of Human kidney (A), cerebellum (B) and testis (C) lysates (in RIPA buffer) stained with ARG63597 anti-NDRG1 antibody at 0.1  $\mu$ g/ml dilution and incubated at RT for 1 hour.



#### ARG63597 anti-NDRG1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63597 anti-NDRG1 antibody at 2.5  $\mu$ g/ml dilution followed by AP-staining.