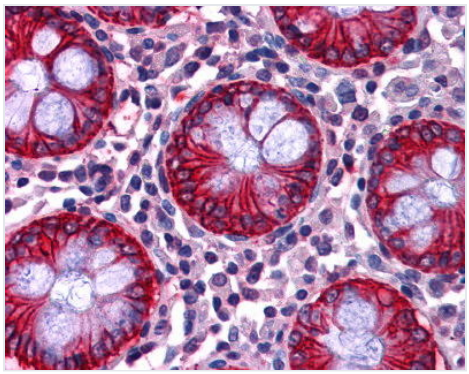
NDRG1 Antibody – Goat Polyclonal

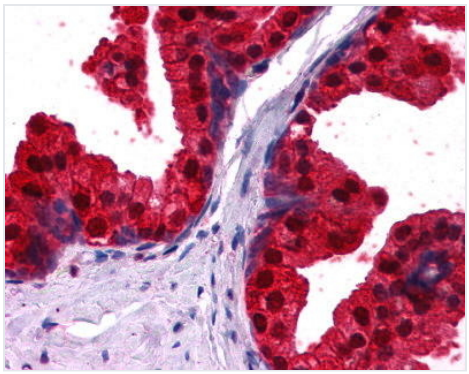
PRODUCT OVERVIEW

Product Name	NDRG1, Polyclonal Antibody
Full Product Name	NDRG1 (Protein NDRG1, Differentiation-related Gene 1 Protein, DRG-1, N-myc Downstream-regulated Gene 1 Protein, Nickel-specific Induction Protein Cap43, Reducing Agents and Tunicamycin-responsive Protein, RTP, Rit42, CAP43, DRG1, RTP)
Product Gene Name	anti-NDRG1 antibody
Product Synonym Names	Anti -NDRG1 (Protein NDRG1, Differentiation-related Gene 1 Protein, DRG-1, N-myc Downstream-regulated Gene 1 Protein, Nickel-specific Induction Protein Cap43, Reducing Agents and Tunicamycin-responsive Protein, RTP, Rit42, CAP43, DRG1, RTP)
Clonality	Polyclonal
Host	Goat
Species Reactivity	Human
Form/Format	Supplied as a liquid in Tris saline, pH 7.3, 0.5% BSA, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human NDRG1. Species sequence homology: Canine, mouse, rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	42,835 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (134249414..134309835, complement). Location: 8q24.3
OMIM	601455
3D Structure	ModBase 3D Structure for Q92597
Immunogen	Synthetic peptide corresponding to GNSAGPKSMEVSC from C-terminus of human NDRG1.
Product Categories/Family for anti-NDRG1 antibody	Antibodies; Abs to Neuroscience
Applications Tested/Suitable for anti-NDRG1 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-NDRG1 antibody	Suitable for use in ELISA, Western Blot and Immunohistochemistry. Dilution: ELISA: 1:32,000 Western Blot: 1:32,000 & 0.1-0.3ug/ml Immunohistochemistry (Formalin fixed paraffin embedded): 2.5ug/ml
Related Product Information for anti-NDRG1 antibody	NDRG1 is a cytoplasmic protein involved in stress responses, hormone responses, cell growth, and differentiation. It is necessary for p53-mediated caspase activation and apoptosis.
Other Notes	Small volumes of anti-NDRG1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NDRG1 purchase	MBS6003853 is an antibody targeting NDRG1. Also known as NDRG1 (Protein NDRG1, Differentiation-related Gene 1 Protein, DRG-1, N-myc Downstream-regulated Gene 1 Protein, Nickel-specific Induction Protein Cap43, Reducing Agents and Tunicamycin-responsive Protein, RTP, Rit42, CAP43, DRG1, RTP). Reactive in Human. Host: Goat.



Immunohistochemistry (IHC) of anti-NDRG1 antibody
Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunohistochemistry (IHC) of anti-NDRG1 antibody
Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western Blot (WB) of anti-NDRG1 antibody
Antibody staining (0.1ug/ml) of Human Kidney lysate (RIPA buffer, 35ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDRG1. It may not necessarily be applicable to this product.

NCBI GI #	48145801
NCBI GeneID	10397
NCBI Accession #	CAG33123.1
UniProt Primary Accession #	Q92597
UniProt Secondary Accession #	O15207; Q6IBG2; Q9NYR6; Q9UK29; B3KR80; B7Z446
UniProt Related Accession #	Q92597
NCBI Official Full Name	NDRG1
NCBI Official Synonym Full Names	N-myc downstream regulated 1
NCBI Official Symbol	NDRG1
NCBI Official Synonym Symbols	GC4; RTP; DRG1; NDR1; NMSL; TDD5; CAP43; CMT4D; DRG-1; HMSNL; RIT42; TARG1; PROXY1
UniProt Protein Name	Protein NDRG1
UniProt Synonym Protein Names	Differentiation-related gene 1 protein; DRG-1; N-myc downstream-regulated gene 1 protein; Nickel-specific induction protein Cap43; Reducing agents and tunicamycin-responsive protein; RTP; Rit42

Protein Family	Protein
UniProt Gene Name	NDRG1
UniProt Synonym Gene Names	CAP43; DRG1; RTP; DRG-1; RTP
UniProt Entry Name	NDRG1_HUMAN
NCBI Protein Information	protein NDRG1; protein regulated by oxygen-1; differentiation-related gene 1 protein; nickel-specific induction protein Cap43; N-myc downstream-regulated gene 1 protein; reducing agents and tunicamycin-responsive protein
NCBI Summary for NDRG1	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]
UniProt Comments for NDRG1	NDRG1: a hypoxia-inducible anti-apoptotic protein. Promotes proliferation and correlates with invasion, metastasis and poor prognosis in many cancers. Is involved in growth arrest and cell differentiation during development. A ubiquitous Rab4a effector protein that modulates angiogenesis and is involved in vesicular recycling of E-cadherin. Colocalizes with transferrin during the recycling in cells. NDRG1 knockdown delays the recycling rate of transferrin, while its overexpression increases the rate of transferrin recycling. Interacts with SIRT1/p53 signaling to attenuate hypoxic injury in human trophoblasts. Its expression is induced by an elevation of free intracellular calcium ion caused by nickel ion exposure. Highly expressed in placental membranes, prostate, kidney, small intestine, ovary, peripheral nerves and Schwann cells. Defects in NDRG1 are the cause of Charcot-Marie-Tooth disease type 4D (CMT4D). Protein type: Cell development/differentiation; Vesicle Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: microtubule cytoskeleton; centrosome; microtubule; cell-cell adherens junction; recycling endosome membrane; perinuclear region of cytoplasm; cytoplasm; plasma membrane; cytosol; nucleus Molecular Function: protein binding; gamma-tubulin binding; cadherin binding; microtubule binding; Rab GTPase binding Biological Process: response to metal ion; DNA damage response, signal transduction by p53 class mediator; myelin maintenance in the peripheral nervous system; mast cell activation Disease: Charcot-marie-tooth Disease, Type 4d
Research Articles on NDRG1	**1.** Low NDRG1 expression is a significant and independent prognostic indicator in neuroblastoma by multivariate analysis.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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