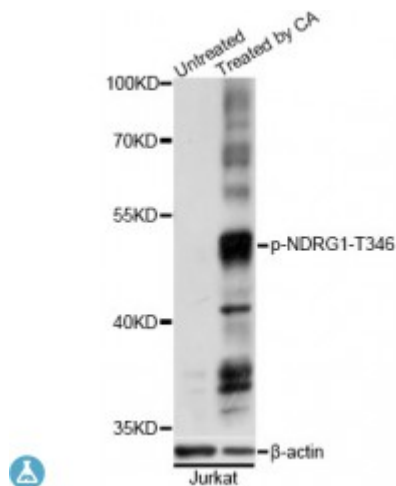


Anti-Phospho-NDRG1-(T346) Antibody



Description

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.

Model	STJ117890
Host	Rabbit
Reactivity	Human, Mouse
Applications	WB
Immunogen	A synthetic phosphorylated peptide around T346 of human NDRG1 (NP_001128714.1).
Gene ID	10397
Gene Symbol	NDRG1
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Ubiquitous
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	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
Molecular Weight	42.835 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:7679 OMIM:601455 Reactome:R-HSA-6803205
Alternative Names	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
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,
Cellular Localization	Cytoplasm, cytosol, Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, Nucleus, Cell membrane,
Post-translational Modifications	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,