

10-7594: Monoclonal antibody to NDRG1 (Clone: ABM51C9)

Clonality :	Monoclonal
Clone Name :	ABM51C9
Application :	WB
Reactivity :	Human
Gene :	NDRG1
Gene ID :	10397
Uniprot ID :	Q92597
Format :	Purified
Alternative Name :	NDRG1,CAP43,DRG1,RTP
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	A partial length recombinant protein of NDRG1 (amino acid 123-318) was used as the immunogen for this antibody.

Description

prostate, and breast cancer. It has been comprehensively characterized with the gene cloned and the protein sequenced. It is also recognized as a significant stress response gene and is regulated by a number of stress stimuli. These include iron chelation, nickel compounds, cobalt, hypoxia, oxidative stress, and tunicamycin. NDRG1 has been shown to inhibit metastasis and tumor progression via its effects on a variety of critical cell signaling pathways involved in proliferation, locomotion, and oncogenesis e.g. AKT, TGF- β , ROCK1/pMLC2, Ras, WNT, etc. NDRG1 is predominantly cytoplasmic, and the protein is ubiquitously expressed both in normal and neoplastic tissues. Additionally, it is highly conserved among multicellular organisms. NDRG1 missense mutations causes HMSNL (Hereditary Motor And Sensory Neuropathy-Lom), an autosomal recessive form of CMT (Charcot-Marie-Tooth disease) also called CMT4D. Further, NDRG1 has been shown to have a role in myelin sheath maintenance exocytosis in mast cells differentiation and NDRG1 expression is induced by homocysteine, androgen, as well as in response to various forms of cellular stress such as hypoxia , heavy metals or DNA damage.

Product Info

Amount :	25 μ g / 100 μ g
Purification :	Protein G Chromatography
Content :	25 μ g in 50 μ l/100 μ g in 200 μ l PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 4-6 μ g/ml

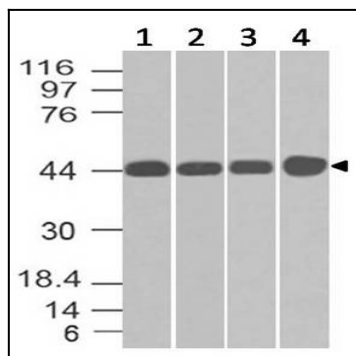


Fig:1- Expression analysis of NDRG1. Anti-NDRG1 antibody (Clone: ABM51C9) was tested at 4 µg/ml on (1) h Intestine, (2) h Ovary, (3) A431 and (4) HCT-116 lysates.