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NDRG1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant NDRG1.
Catalog # AT2991a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q92597
Other Accession	BC003175
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2D7
Calculated MW	42835

Additional Information

Gene ID	10397
Other 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, NDRG1, CAP43, DRG1, RTP
Target/Specificity	NDRG1 (AAH03175, 1 a.a. ~ 394 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NDRG1 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

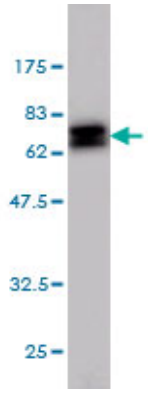
Background

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. It is necessary for p53-mediated caspase activation and apoptosis. Mutation in this gene has been reported to be causative for hereditary motor and sensory neuropathy-Lom. Multiple alternatively spliced variants, encoding the same protein, have been identified.

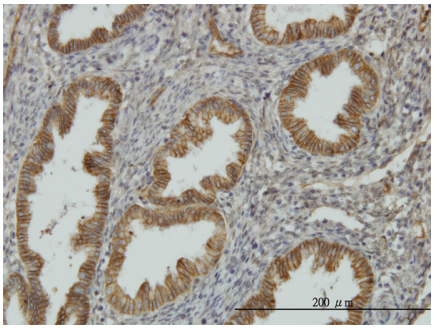
References

1.A novel molecular marker for early detection and evaluating prognosis of gastric cancer: N-myc downstream regulated gene-1 (NDRG1).Jiang K, Shen Z, Ye Y, Yang X, Wang S.Scand J Gastroenterol. 2010 Apr 14. [Epub ahead of print]2.Metastasis-related plasma membrane proteins of human breast cancer cells identified by comparative quantitative mass spectrometry.Leth-Larsen R, Lund R, Hansen HV, Laenkholm AV, Tarin D, Jensen ON, Ditzel HJ.Mol Cell Proteomics. 2009 Jun;8(6):1436-49. Epub 2009 Mar 24.

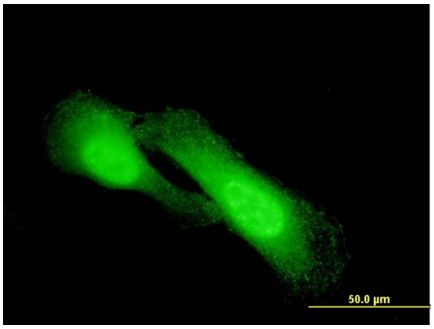
Images



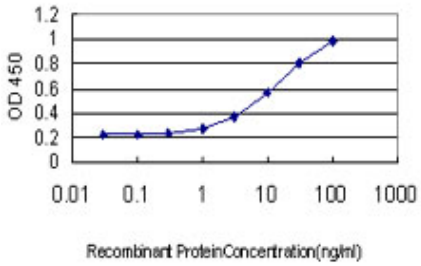
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (69.08 KDa) .



Immunoperoxidase of monoclonal antibody to NDRG1 on formalin-fixed paraffin-embedded human endometrium. [antibody concentration 0.7 ug/ml]



Immunofluorescence of monoclonal antibody to NDRG1 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged NDRG1 is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.