

# 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

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.

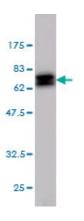
## **Background**

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.

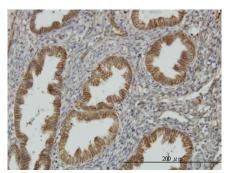
#### References

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.

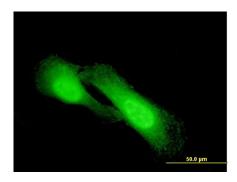
### **Images**



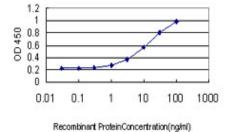
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (69.08 KDa).



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'.