

#5846 Store at -20C

## NDRG3 Antibody



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TECHNOLOGY®

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<b>Applications:</b> WB, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 45	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q9UGV2	<b>Entrez-Gene Id:</b> 57446
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

NDRG3 Antibody recognizes endogenous levels of total NDRG3 protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NDRG3 protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

The NDRG (N-Myc downstream-regulated gene) family consisting of NDRG1, NDRG2, NDRG3, and NDRG4 are structurally related proteins with roles in cell proliferation, differentiation, apoptosis, stress responses, and cell migration/metastasis (1-3). NDRG1 was originally identified as a protein that was upregulated in N-Myc knockout mice (1). Proteins in the NDRG family, particularly NDRG1 and NDRG2, have been reported to be down-regulated in various cancer tissues and have been suggested to function as a tumor suppressors (4,5). Members of the NDRG family each have distinct expression patterns; NDRG3 is most highly expressed in the testis, prostate, ovary, and brain (2,6,7). NDRG3 has also been shown to be up-regulated by androgen in prostate cell lines and can promote cell growth in those cells (8).

### Background References

1. Shimono, A. et al. (1999) *Mech Dev* 83, 39-52.
2. Qu, X. et al. (2002) *Mol Cell Biochem* 229, 35-44.
3. Zhou, R.H. et al. (2001) *Genomics* 73, 86-97.
4. Yao, L. et al. (2008) *Acta Biochim Biophys Sin (Shanghai)* 40, 625-35.
5. Ellen, T.P. et al. (2008) *Carcinogenesis* 29, 2-8.
6. Okuda, T. and Kondoh, H. (1999) *Biochem Biophys Res Commun* 266, 208-15.
7. Zhao, W. et al. (2001) *Biochim Biophys Acta* 1519, 134-8.
8. Wang, W. et al. (2009) *Int J Cancer* 124, 521-30.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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