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Store at -20C
#5846

NDRG3 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit	UniProt ID: #Q9UGV2	Entrez-Gene Id: 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

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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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