

## Product Information

### Anti-NDRG1 (C-terminal)

produced in rabbit, affinity isolated antibody

Product Number **N8539**

#### Product Description

Anti-NDRG1 (C-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to a sequence at the C-terminal of human NDRG1 (GeneID: 10397), conjugated to KLH. The corresponding sequence differs by one amino acid in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-NDRG1 (C-terminal) recognizes human, mouse, and rat NDRG1. The antibody may be used in various immunochemical techniques including immunoblotting (~43 kDa) and immunoprecipitation. Detection of the NDRG1 band by immunoblotting is specifically inhibited by the immunizing peptide.

NDRG1 is a member of the N-myc downregulated gene family that 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. NDRG1 is a Rab4a effector involved in vesicular recycling of E-cadherin. Down regulation of NDRG1 increases prostate and breast metastasis, and 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.

#### Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

#### Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

Store at -20 °C. For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Product Profile

Immunoblotting: a working antibody concentration of 1-2 µg/mL is recommended using a whole extract of mouse 3T3 and rat NRK cells.

Immunoprecipitation: a working antibody amount of 5-10 µg is recommended using lysates of HeLa cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

#### References

1. Kovacevic, Z., and Richardson, D.R., *Carcinogenesis*, **27**, 2355-2366 (2006).
2. Kachhap, S.K. et al., *Plos One*, **2**, e844 (2007).
3. Ellen, T.P. et al., *Carcinogenesis*, **29**, 2-8 (2008).

VS,ST,TD,KAA,PHC,MAM 03/19-1