

**NDRG4 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17090c**

**Specification**

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**NDRG4 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9ULP0</a>
Other Accession	<a href="#">O9Z2L9</a> , <a href="#">O8BTG7</a> , <a href="#">NP_001123959.1</a> , <a href="#">NP_065198.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38459
Antigen Region	193-220

**NDRG4 Antibody (Center) - Additional Information**

**Gene ID** 65009

**Other Names**

Protein NDRG4, Brain development-related molecule 1, N-myc downstream-regulated gene 4 protein, Vascular smooth muscle cell-associated protein 8, SMAP-8, NDRG4, BDM1, KIAA1180

**Target/Specificity**

This NDRG4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 193-220 amino acids from the Central region of human NDRG4.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NDRG4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**NDRG4 Antibody (Center) - Protein Information**

**Name** NDRG4**Synonyms** BDM1, KIAA1180

**Function** Contributes to the maintenance of intracerebral BDNF levels within the normal range, which is necessary for the preservation of spatial learning and the resistance to neuronal cell death caused by ischemic stress (By similarity). May enhance growth factor-induced ERK1 and ERK2 phosphorylation, including that induced by PDGF and FGF. May attenuate NGF-promoted ELK1 phosphorylation in a microtubule-dependent manner.

**Cellular Location**

Cytoplasm, cytosol

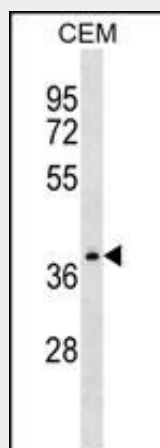
**Tissue Location**

Expressed predominantly in brain and heart (at protein level). In the brain, detected in astrocytes. Isoform 1 and isoform 2 are only expressed in brain. Isoform 3 is expressed in both heart and brain. Up-regulated in glioblastoma multiforme cells

**NDRG4 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NDRG4 Antibody (Center) - Images**

NDRG4 Antibody (Center) (Cat. #AP17090c) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the NDRG4 antibody detected the NDRG4 protein (arrow).

**NDRG4 Antibody (Center) - 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 that may be involved in the regulation of mitogenic signalling in vascular smooth muscles cells. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq].

#### **NDRG4 Antibody (Center) - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press :  
Holm, H., et al. Nat. Genet. 42(2):117-122(2010)  
Schilling, S.H., et al. J. Biol. Chem. 284(37):25160-25169(2009)  
Melotte, V., et al. J. Natl. Cancer Inst. 101(13):916-927(2009)  
Pfeufer, A., et al. Nat. Genet. 41(4):407-414(2009)