



Rabbit Anti-NDRG4 antibody

SL1999R

Product Name:	NDRG4
Chinese Name:	抑癌基因NDRG4抗体
Alias:	BDM1; N-mycdownstream-regulated gene 4 protein; Brain development-related molecule 1; KIAA1180; NdrG4; NDRG4_HUMAN; Protein NDRG4; SMAP 8; SMAP-8; Vascular smooth muscle cell-associated protein 8.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NDRG4:281-352/352
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 is required for cell cycle progression and survival in primary astrocytes and may be involved in the regulation of mitogenic signalling in vascular smooth muscles cells. Alternative splicing results in multiple transcripts encoding different

isoforms.[provided by RefSeq, Jun 2011]

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.

Subcellular Location:

Cytoplasm, cytosol.

Tissue Specificity:

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.

Post-translational modifications:

Phosphorylated in an aortic smooth muscle cell line, following PDGF treatment.

Similarity:

Belongs to the NDRG family.

SWISS:

Q9ULP0

Gene ID:

65009

Database links:

[Entrez Gene: 65009](#)Human

[Entrez Gene: 234593](#)Mouse

[Omim: 614463](#)Human

[SwissProt: Q9ULP0](#)Human

[SwissProt: Q8BTG7](#)Mouse

[Unigene: 322430](#)Human

[Unigene: 29846](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human,

	therapeutic or diagnostic applications.
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