

NDRG4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17090c

Product Information

Application	WB, E
Primary Accession	Q9ULP0
Other Accession	Q9Z2L9 , Q8BTG7 , NP_001123959.1 , NP_065198.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37013
Calculated MW	38459
Antigen Region	193-220

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.

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

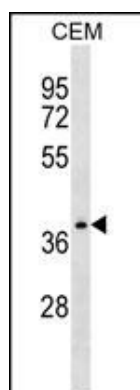
Background

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].

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)

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.