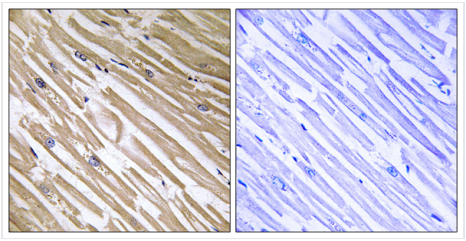
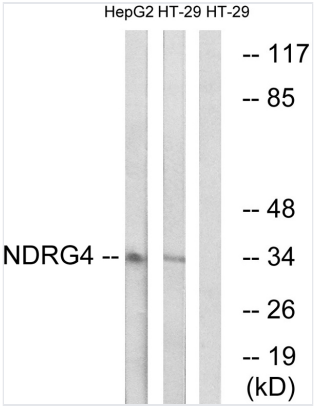
NDRG4 Antibody

PRODUCT OVERVIEW

Product Name	NDRG4, Antibody
Full Product Name	NDRG4 Antibody
Product Gene Name	anti-NDRG4 antibody
Product Synonym Names	Brain development-related molecule 1; Protein NDRG4; SMAP-8; Vascular smooth muscle cell-associated protein 8
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	NDRG4 antibody detects endogenous levels of total NDRG4 protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	39,168 Da
OMIM	614463
3D Structure	ModBase 3D Structure for Q9ULP0
Immunogen	The antiserum was produced against synthesized peptide derived from internal of human NDRG4.
Product Categories/Family for anti-NDRG4 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NDRG4 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-NDRG4 antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:40000
Related Product Information for anti-NDRG4 antibody	MBS855843 is an antibody targeting NDRG4. Also known as NDRG4 Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-NDRG4 antibody	Zhou R.-H., Genomics 73:86-97(2001). Nishimoto S., Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases. Qu X., Mol. Cell. Biochem. 229:35-44(2002).
Other Notes	Small volumes of anti-NDRG4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-NDRG4 antibody
Peptide-+



Immunohistochemistry (IHC) of anti-NDRG4 antibody
Immunohistochemistry analysis of paraffin-embedded human heart tissue using NDRG4 antibody. Western blot analysis of extracts from HepG2 cells and HT-29 cells, using NDRG4 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDRG4. It may not necessarily be applicable to this product.

NCBI GI #	194440722
NCBI GeneID	65009
NCBI Accession #	NP_001123959.1
UniProt Primary Accession #	Q9ULP0
UniProt Secondary Accession #	Q6ZNE7; Q6ZTI7; Q96PL9; Q9GZM1; Q9GZN3; Q9GZX0; B3KNU2; B4DK66; B4DSW5; H7C600
UniProt Related Accession #	Q9ULP0
GenBank Nucleotide #	NM_001130487.1
NCBI Official Full Name	protein NDRG4 isoform 2
NCBI Official Synonym Full Names	NDRG family member 4
NCBI Official Symbol	NDRG4
NCBI Official Synonym Symbols	BDM1; SMAP8; SMAP-8
UniProt Protein Name	Protein NDRG4
UniProt Synonym Protein Names	Brain development-related molecule 1; N-myc downstream-regulated gene 4 protein; Vascular smooth muscle cell-associated protein 8; SMAP-8
Protein Family	Protein
UniProt Gene Name	NDRG4
UniProt Synonym Gene Names	BDM1; KIAA1180; SMAP-8
NCBI Protein Information	protein NDRG4
NCBI Summary for NDRG4	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]
UniProt Comments for NDRG4	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 (). 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.

Research Articles on NDRG4	**1.** NDRG4 is exclusively expressed by central, peripheral and enteric neurons/nerves, suggesting a neuronal-specific role of this protein
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