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MAGEL2 Rabbit pAb

Catalog # AP99138

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9UJ55
Other Accession	Q9UJ55
Predicted	Rat, Pig, Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	132822
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAGEL2
Epitope Specificity	121-220/133
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 MAGE domain.
SUBUNIT	Interacts with TRIM27.
DISEASE	Note=May play a role in Prader-Willi syndrome (PWS) which is a contiguous gene syndrome resulting from inactivity of the paternal copies of a number of genes on 15q11, through deletion or disruption of these genes or maternal uniparental disomy 15. The PWS syndrome is characterized by muscular hypotonia, mental retardation, short stature, obesity, hypogonadotropic hypogonadism, and small hands and feet.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Prader-Willi syndrome (PWS) is caused by the loss of expression of imprinted genes in chromosome 15q11-q13 region. Affected individuals exhibit neonatal hypotonia, developmental delay, and childhood-onset obesity. Necdin (NDN), a gene involved in the terminal differentiation of neurons, localizes to this region of the genome and has been implicated as one of the genes responsible for the etiology of PWS. This gene is structurally similar to NDN, is also localized to the PWS chromosomal region, and is paternally imprinted, suggesting a possible role for it in PWS. [provided by RefSeq, Oct 2010]

Additional Information

Gene ID	54551
Other Names	NDNL1; PWLS; SHFYNG; nM15; MAGL2_HUMAN; MAGEL2; Necdin-like protein 1; Protein nM15; MAGE family member L2; MAGE-like 2; melanoma antigen family L2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	MAGEL2
Synonyms	NDNL1
Function	Probably enhances ubiquitin ligase activity of RING-type zinc finger-containing E3 ubiquitin-protein ligases, possibly through recruitment and/or stabilization of the Ubl-conjugating enzyme (E2) at the E3:substrate complex. Acts as a regulator of retrograde transport via its interaction with VPS35. Recruited to retromer-containing endosomes and promotes the formation of 'Lys-63'-linked polyubiquitin chains at 'Lys-220' of WASHC1 together with TRIM27, leading to promote endosomal F-actin assembly (PubMed:23452853). Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-BMAL1 heterodimer. Significantly promotes the cytoplasmic accumulation of CLOCK (By similarity).
Cellular Location	Early endosome. Cytoplasm {ECO:0000250|UniProtKB:Q9QZ04}. Nucleus {ECO:0000250|UniProtKB:Q9QZ04}. Note=Recruited to retromer-containing endosomes via interaction with VPS35. Colocalizes with CLOCK and BMAL1 in the cytoplasm, and with PER2 in the cytoplasm and nucleus (By similarity). {ECO:0000250|UniProtKB:Q9QZ04, ECO:0000269|PubMed:23452853}
Tissue Location	Expressed in placenta, fetal and adult brain. Not detected in heart and small intestine, very low levels in fibroblasts Not expressed in brain of a Prader-Willi patient

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