

KNDC1 Rabbit pAb

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Catalog # AP54223

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q76NI1
Predicted	Rat, Pig, Human, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	191397
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KNDC1
Epitope Specificity	1601-1749/1749
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	KNDC1 is a 1,749 amino acid protein that contains two KIND domains and an N-terminal Ras-GEF domain. Expressed in the cerebral cortex, KNDC1 is a likely guanine nucleotide exchange factor (GEF). Existing as six alternatively spliced isoforms, the gene encoding KNDC1 maps to human chromosome 10q26.3 and mouse chromosome 7 F4. Spanning nearly 135 million base pairs, chromosome 10 makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

Additional Information

Gene ID	85442
Other Names	Kinase non-catalytic C-lobe domain-containing protein 1 {ECO:0000312 HGNC:HGNC:29374}, KIND domain-containing protein 1, Cerebral protein 9 {ECO:0000303 Ref.3}, Protein very KIND, KNDC1 (HGNC:29374)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	KNDC1 (HGNC:29374)
Function	RAS-Guanine nucleotide exchange factor (GEF) that controls the negative regulation of neuronal dendrite growth by mediating a signaling pathway linking RAS and MAP2 (By similarity). May be involved in cellular senescence (PubMed: 24788352).
Cellular Location	Cell projection, dendrite {ECO:0000250 UniProtKB:Q0KK55}. Perikaryon {ECO:0000250 UniProtKB:Q0KK55}
Tissue Location	Expressed specifically in the cerebral cortex. {ECO:0000269 Ref.3}

Background

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