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GCM2 Rabbit pAb

Catalog # AP97558

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O75603
Other Accession	O75603
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56610
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GCM2
Epitope Specificity	61-160/506
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 GCM DNA-binding domain.
DISEASE	Defects in GCM2 are a cause of familial isolated hypoparathyroidism (FIH) [MIM:146200]; also known as autosomal dominant hypoparathyroidism or autosomal dominant hypocalcemia. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps. An autosomal recessive form of FIH also exists.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Glial cells missing homolog 2 (GCM2), also known as Chorion-specific transcription factor GCMb, is a 506 amino acid nuclear protein. GCM2 is a transcription factor that acts as an essential regulator of parathyroid development. GCM2 is also thought to mediate the effect of calcium on parathyroid hormone expression and secretion in parathyroid cells. GCM2 contains one N-terminal GCM domain, which has DNA binding activity. Mutations of the gene that encodes GCM2 are associated with hypoparathyroidism, an autosomal recessive condition characterized by hypocalcemia and hyperphosphatemia.

Additional Information

Gene ID	9247
Other Names	GCM2_HUMAN; GCM2; hGCMb; GCM motif protein 2; Glial cells missing homolog 2; GCMB; glial cells missing transcription factor 2; glial cells missing (Drosophila) homolog b; glial cells missing homolog 2 (Drosophila)
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	GCM2 (HGNC:4198)
Function	Transcription factor that binds specific sequences on gene promoters and activate their transcription. Through the regulation of gene transcription, may play a role in parathyroid gland development.
Cellular Location	Nucleus.

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