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GAPDHS Rabbit pAb

Catalog # AP97524

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O14556
Other Accession	O14556
Reactivity	Rat, Mouse
Predicted	Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44501
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GAPDHS
Epitope Specificity	251-350/408
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glyceraldehyde-3-phosphatedehydrogenase family.
SUBUNIT	Homotetramer. Interacts with ARRB2; the interaction isdetected in the nucleus upon OR1D2 stimulation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein belonging to theglyceraldehyde-3-phosphate dehydrogenase family of enzymes thatplay an important role in carbohydrate metabolism. Like its somaticcell counterpart, this sperm-specific enzyme functions in anicotinamide adenine dinucleotide-dependent manner to removehydrogen and add phosphate to glyceraldehyde 3-phosphate to form1,3-diphosphoglycerate. During spermiogenesis, this enzyme may playan important role in regulating the switch between differentenergy-producing pathways, and it is required for sperm motilityand male fertility. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	26330
Other Names	G3PT_BOVIN; GAPDHS; Spermatogenic glyceraldehyde-3-phosphate dehydrogenase; 1.2.1.12; G3PT_HUMAN; Spermatogenic cell-specific glyceraldehyde 3-phosphate dehydrogenase 2 (GAPDH-2); GAPD2; GAPDH2; GAPDS; G3PT_MOUSE; Gapd-s; G3PT_RAT; glyceraldehyde-3-phosphate dehydrogenase, spermatogenic
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	GAPDHS (HGNC:24864)
Synonyms	GAPD2, GAPDH2, GAPDS
Function	Catalyzes the conversion of D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate in glycolysis and the reverse reaction in gluconeogenesis (By similarity). May play an important role in regulating the switch between different pathways for energy production during spermiogenesis and in the spermatozoon. Required for sperm motility and male fertility (By similarity).
Cellular Location	Cytoplasm.
Tissue Location	Testis specific.

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