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Datasheet for ABIN1710729
anti-GNPDA1 antibody (AA 201-289) (FITC)

Overview

Quantity:	100 µL
Target:	GNPDA1
Binding Specificity:	AA 201-289
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNPDA1 antibody is conjugated to FITC
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GNPDA1
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Cow,Sheep,Pig
Purification:	Purified by Protein A.

Target Details

Target:	GNPDA1
Alternative Name:	GNPDA1 (GNPDA1 Products)

Target Details

Background: Synonyms: EC 3.5.99.6, GlcN6P deaminase 1, Glucosamine 6 phosphate deaminase 1, Glucosamine 6 phosphate isomerase 1, Glucosamine-6-phosphate deaminase 1, Glucosamine-6-phosphate isomerase 1, GNPDA 1, GNPDA1, GNPI, GNPI1_HUMAN, HLN, KIAA0060, Oscillin, Putative glucosamine 6 phosphate isomerase.

Background: During fertilization in mammals, the sperm activates the egg by causing an increase in the level of free cytoplasmic calcium concentration. This increased calcium concentration induces a characteristic series of oscillations that trigger egg activation and early embryo development. A hamster protein named oscillin is thought to be involved in this pathway. The enzyme glucosamine-6-phosphate isomerase (GNPI) or deaminase (GNPDA1) and the related protein GNPDA2 are the human homologs of hamster oscillin. GNPDA1 and GNPDA2 catalyze the conversion of GNP to fructose-6-phosphate and ammonia. Both proteins exist as homohexamers and are ubiquitously expressed with highest expression in testis, ovary and heart. Three isoforms of GNPDA2 are expressed due to alternative splicing events.

Gene ID: 10007

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months