Datasheet for ABIN94395

anti-GAPDHS antibody

2 Images

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Overview

Quantity:	0.1 mg
Target:	GAPDHS
Reactivity:	Human, Pig
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GAPDHS antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Freshly ejaculated human sperms were washed in PBS and extracted in 3% acetic acid, 10% glycerol, 30 mM benzaminidine. The acid extract was dialyzed against 0.2% acetic acid and subsequently used for immunization.
Clone:	Hs-8
Isotype:	IgM
Specificity:	The antibody Hs-8 reacts with GAPDHS, the sperm-specific glyceraldehyde phosphate dehydrogenase, which is an intra-acrosomal protein.
Cross-Reactivity (Details):	Human, Porcine
Purification:	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Purity:	> 95 % (by SDS-PAGE)

Target Details

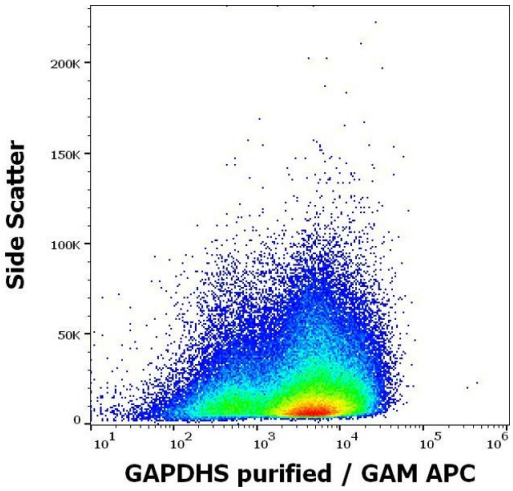
Target:	GAPDHS
Alternative Name:	GAPDHS (GAPDHS Products)
Background:	Glyceraldehyde-3-phosphate dehydrogenase, spermato,GAPDHS (the sperm-specific glyceraldehyde phosphate dehydrogenase, also known as GAPD2, GAPDS, HSD-35, or GAPDH-2, is a glycolytic enzyme that plays an important role in carbohydrate metabolism. Like its somatic cell counterpart, this sperm-specific enzyme functions in a nicotinamide adenine dinucleotide-dependent manner to remove hydrogen and add phosphate to glyceraldehyde 3-phosphate to form 1,3-diphosphoglycerate. During spermiogenesis, this enzyme may play an important role in regulating the switch between different energy-producing pathways, and it is required for sperm motility and male fertility. It can be used as an intra-acrosomal marker for evaluation of the physiological state of sperm cells as well as for selection of a suitable method of fertilization in the laboratories of assisted reproduction.,SGAPDH, HSD-35
Gene ID:	26330
UniProt:	O14556
Pathways:	Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	Immunocytochemistry: Recommended dilution: 10 µg/mL, membrane permeabilization (acetone) is essential. Flow cytometry: Recommended dilution: 3-12 µg/mL. Intraacrosomal staining.
Restrictions:	For Research Use only

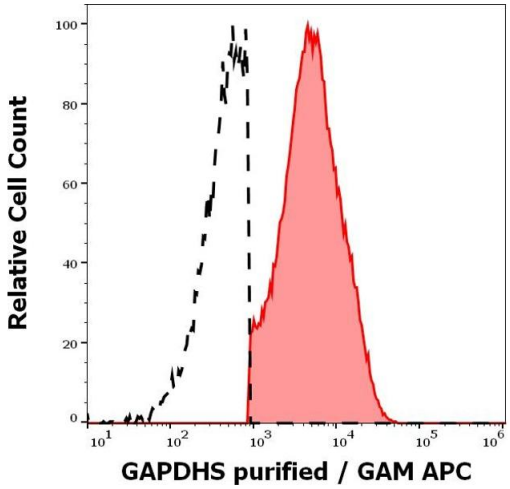
Handling

Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human sperm cells stained using anti-GAPDHS (Hs-8) purified antibody (concentration in sample 7.5 µg/mL) GAM APC.



Flow Cytometry

Image 2. Separation of human GAPDHS positive cells (red-filled) from GAPDHS negative cells (black-dashed) in flow cytometry analysis (intracellular staining) of human sperm cells stained using anti-GAPDHS (Hs-8) purified antibody (concentration in sample 7.5 µg/mL) GAM APC.

