

Anti-GAPDHS Purified Monoclonal Antibody

Catalog Number: M06121

About GAPDHS

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.

Overview

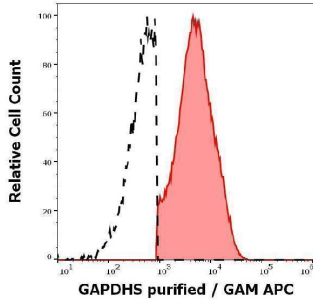
Product Name	Anti-GAPDHS Purified Monoclonal Antibody
Reactive Species	Human, Pig
Description	Boster Bio Anti-GAPDHS Purified Monoclonal Antibody (Catalog# M06121). Tested in WB, ICC, Flow Cytometry application(s). This antibody reacts with Pig, Human.
Application	Flow Cytometry, ICC, WB
Clonality	Monoclonal Hs-8
Formulation	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	O14556

Technical Details

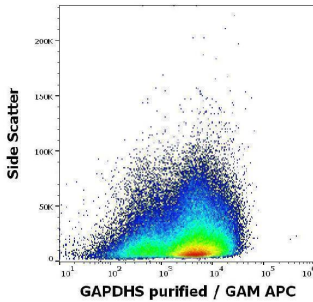
Immunogen	Freshly ejaculated human sperms were washed in PBS and extracted in 3% acetic acid, 10% glycerol, 30 mM benzaminidine. The acid extract was dialyzed against 0.2% acetic acid and subsequently used for immunization. The antibody Hs-8 reacts with GAPDHS, the sperm-specific glyceraldehyde phosphate dehydrogenase, which is an intra-acrosomal protein.
Predicted Reactive Species	Primate
Cross Reactivity	Cross-reactivity with CLIC5b was not determined.
Isotype	Mouse IgM
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Suggested Dilutions	Immunocytochemistry: 10 ug/ml; membrane permeabilization (acetone) is essential. Flow cytometry: 3-12 µg/ml. Intraacrosomal staining.

Anti-GAPDHS Purified Monoclonal Antibody (M06121) Images



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.



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.

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