Monoclonal Antibody to GAPDHS
Purified Antibody (0.1 mg)

Clone: Hs-8
Isotype: Mouse IgM
Specificity: The antibody Hs-8 reacts with GAPDHS, the sperm-specific glyceraldehyde phosphate dehydrogenase, previously identified under the general name "intra-acrosomal protein".
Regulatory Status: RUO
Immunogen: Freshly ejaculated human sperms were washed in PBS and extracted in 3% acetic acid, 10% glycerol, 30 mM benzamidine. The acid extract was dialyzed against 0.2% acetic acid and subsequently used for immunization.
Species Reactivity: Human, Porcine
Application: Western Blotting
Immunocytochemistry
Recommended dilution: Purified Antibody: 10 µg/ml
Staining technique: Membrane permeabilization (acetone) is essential.
Flow Cytometry
Purity: > 95% (by SDS-PAGE)
Purification: Purified by precipitation and chromatography
Concentration: 1 mg/ml
Storage Buffer: Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label
Background: 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.
References:


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