

## Product datasheet for **SM3115P**

### GAPDHS Mouse Monoclonal Antibody [Clone ID: Hs-8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Hs-8
Applications:	FC, IF, WB
Recommended Dilution:	<b>Immunocytochemistry:</b> 10 µg/ml, membrane permeabilization (acetone) essential. <b>Flow cytometry.</b> <b>Western blot.</b>
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
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.
Specificity:	The antibody reacts with GAPDHS, the sperm-specific glyceraldehyde phosphate dehydrogenase, previously identified under the general name "intra-acrosomal protein".
Formulation:	Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Precipitation methods and size-exclusion chromatography; purity: > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase, spermatogenic
Database Link:	<a href="#">Entrez Gene 26330 Human</a> <a href="#">O14556</a>



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**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.

**Synonyms:**

GAPDHS, GAPD2, GAPDS, HSD35, HSD-35