

### 30-1189: Anti-GAPDHS Monoclonal Antibody (Clone:Hs-8)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	Hs-8
<b>Application :</b>	WB, ICC, FACS
<b>Reactivity :</b>	Human, Pig
<b>Gene :</b>	GAPDHS
<b>Gene ID :</b>	26330
<b>Uniprot ID :</b>	O14556
<b>Format :</b>	Purified
<b>Alternative Name :</b>	GAPDHS,GAPD2,GAPDH2,GAPDS,HSD-35,HSD35
<b>Isotype :</b>	Mouse IgM
<b>Immunogen Information :</b>	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.

#### Description

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.

#### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by precipitation and chromatography
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

#### Application Note

**Western Blotting Immunocytochemistry** *Recommended dilution:*

Purified Antibody: 10  $\mu$ g/ml

*Staining technique:* Membrane permeabilization (acetone) is essential.

**Flow Cytometry**