

# GAPDHS Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8610c

### Specification

# **GAPDHS Antibody (Center) - Product Information**

Application	
Primary Accession	
Other Accession	
Reactivity	
Predicted	
Host	
Clonality	
Isotype	
Antigen Region	

FC, IHC-P, WB,E <u>014556</u> <u>04R3T1</u> Human Monkey Rabbit Polyclonal Rabbit IgG 104-134

# **GAPDHS** Antibody (Center) - Additional Information

### Gene ID 26330

### **Other Names**

Glyceraldehyde-3-phosphate dehydrogenase, testis-specific, Spermatogenic cell-specific glyceraldehyde 3-phosphate dehydrogenase 2, GAPDH-2, Spermatogenic glyceraldehyde-3-phosphate dehydrogenase, GAPDHS, GAPD2, GAPDH2, GAPDS

#### Target/Specificity

This GAPDHS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-134 amino acids from the Central region of human GAPDHS.

Dilution  $FC \sim 1:10 \sim 50$   $IHC - P \sim 1:50 \sim 100$   $WB \sim 1:1000$  $E \sim -$  Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Precautions

GAPDHS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

# **GAPDHS Antibody (Center) - Protein Information**



# Name GAPDHS

Synonyms GAPD2, GAPDH2, GAPDS

**Function** May play an important role in regulating the switch between different pathways for energy production during spermiogenesis and in the spermatozoon. Required for sperm motility and male fertility (By similarity).

Cellular Location Cytoplasm.

**Tissue Location** Testis specific.

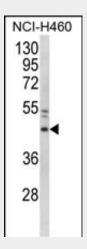
# **GAPDHS Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

### <u>Western Blot</u>

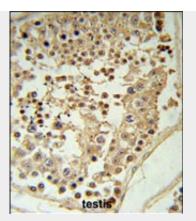
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

**GAPDHS Antibody (Center) - Images** 

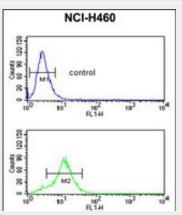


Western blot analysis of GAPDHS Antibody (Center) (Cat. #AP8610c) in NCI-H460 cell line lysates (35ug/lane). GAPDHS (arrow) was detected using the purified Pab.





GAPDHS Antibody (Center) (Cat. #AP8610c) IHC analysis in formalin fixed and paraffin embedded testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GAPDHS Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



GAPDHS Antibody (Center) (Cat. #AP8610c) flow cytometric analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

# GAPDHS Antibody (Center) - Background

GAPDHS is a protein belonging to the glyceraldehyde-3-phosphate dehydrogenase family of enzymes that play 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.

# GAPDHS Antibody (Center) - References

Welch, J.E., et.al., J. Androl. 21 (2), 328-338 (2000) Goodwin, L.O., et.al., Mol. Hum. Reprod. 6 (2), 127-136 (2000) Benham, F.J. et.al., Genomics 5 (2), 209-214 (1989)

- GAPDHS Antibody (Center) Citations
  - The effects of chemotherapy with bleomycin, etoposide, and cis-platinum (BEP) on rat sperm chromatin remodeling, fecundity and testicular gene expression in the progeny.
  - Exposure to bleomycin, etoposide, and cis-platinum alters rat sperm chromatin integrity and sperm head protein profile.