

For Research Use Only

SPEF2 Polyclonal antibody, PBS Only

Catalog Number: 27989-1-PBS



Basic Information

Catalog Number:

27989-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27506

GenBank Accession Number:

NM_024867

GeneID (NCBI):

79925

UNIPROT ID:

Q9C093

Full Name:

sperm flagellar 2

Calculated MW:

210 kDa

Observed MW:

210 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IF-P, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

Sperm flagellar protein 2 (SPEF2) is also named KPL2. As a cilia-associated protein, SPEF2 is broadly expressed in various cilia-related organs, such as the lung, spleen, trachea, brain, and testis (PMID: 10100999). SPEF2 is known to be essential for sperm tail development (PMID: 28619825). During spermatogenesis, SPEF2 is weakly expressed in cytoplasm in pachytene spermatocytes and round spermatocytes, then SPEF2 is localized in the manchette of steps 10-12 elongating spermatids, in the basal body at steps 13-14, and finally in the midpiece of the sperm tail at steps 14-16 (PMID: 19889948). Spef2 is expressed in the bone and cartilage, and Spef2 expression in osteoblasts increases during in vitro differentiation (PMID: 29339787).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

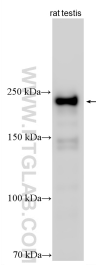
T: 4006900926

E: Proteintech-CN@ptglab.com

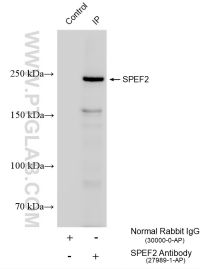
W: ptgcn.com

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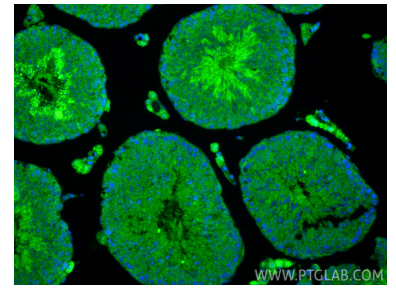
Selected Validation Data



Rat testis tissue lysates were subjected to SDS PAGE followed by western blot with 27989-1-AP (SPEF2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 27989-1-PBS in a different storage buffer formulation.



IP result of anti-SPEF2 (IP:27989-1-AP, 4ug; Detection:27989-1-AP 1:1000) with rat testis tissue lysate 1800 ug. This data was developed using the same antibody clone with 27989-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using SPEF2 antibody (27989-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 27989-1-PBS in a different storage buffer formulation.