

For Research Use Only

ADGB Polyclonal antibody

Catalog Number: 31756-1-AP



Basic Information

Catalog Number: 31756-1-AP	GenBank Accession Number: NM_024694	Purification Method: Antigen affinity Purification
Source: Rabbit	GeneID (NCBI): 79747	Recommended Dilutions: WB: 1:500-1:1000
Isotype: IgG	UNIPROT ID: Q8N7X0	IHC: 1:50-1:500 IF-P: 1:50-1:500
Immunogen Catalog Number: AG36246	Full Name: chromosome 6 open reading frame 103	
	Calculated MW: 189kDa	
	Observed MW: 235 kDa	

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: A431 cells,

IHC: rat testis tissue, mouse testis tissue

IF-P: mouse testis tissue,

Background Information

ADGB (Androglobin) is an evolutionarily conserved member of the globin protein family. It is specifically and highly expressed in spermatogenic cells (particularly sperm cells) of mammalian testes and in ciliated cells across various tissues. The ADGB protein possesses a unique structure, comprising a globin domain and a calmodulin-binding domain, suggesting its potential role in integrating gas (such as oxygen) sensing with calcium ion signaling functions. Current research indicates that ADGB plays a critical role in spermatogenesis within the male reproductive system, as well as in the formation and functional maintenance of cilia. Its functional deficiency may lead to abnormal sperm morphology and motility defects, thereby affecting male fertility. The target protein ADGB has a size of 235 kDa. This protein is unstable and prone to degradation, with degradation bands observed at 135 kDa, 70 kDa, and 55 kDa. (PMID: 36995441)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

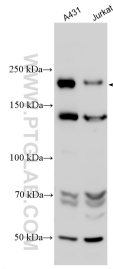
T: 4006900926

E: Proteintech-CN@ptglab.com

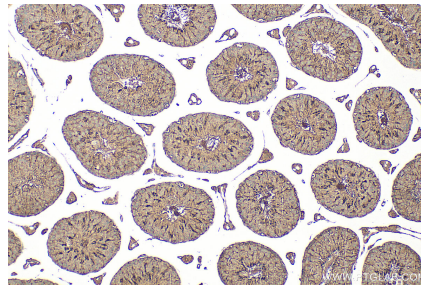
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

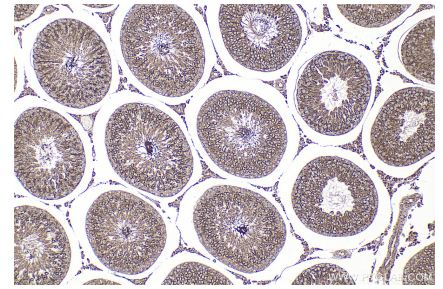
Selected Validation Data



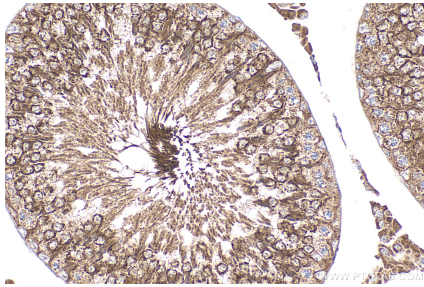
Various lysates were subjected to SDS PAGE followed by western blot with 31756-1-AP (ADGB antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



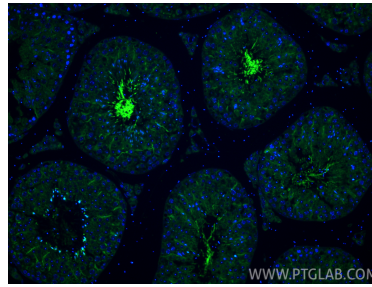
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 31756-1-AP (C6orf103 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 31756-1-AP (C6orf103 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 31756-1-AP (C6orf103 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using ADGB antibody (31756-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).