

For Research Use Only

VLGR1 Polyclonal antibody, PBS Only

Catalog Number:31628-1-PBS



Basic Information

Catalog Number:

31628-1-PBS

Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG34635

GenBank Accession Number:

NM_032119

GeneID (NCBI):

84059

UNIPROT ID:

Q8WXG9

Full Name:

G protein-coupled receptor 98

Calculated MW:

693 kDa

Observed MW:

217 kDa

Purification Method:

Antigen affinity Purification

Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse

Background Information

VLGR1 (very large G protein-coupled receptor-1), also known as ADGRV1, GPR98, and MASS, has a molecular weight of up to 700 kDa, making it the largest member of the 33 adhesive G protein-coupled receptors (ADGRs), a unique subfamily of the GPCR superfamily. The full-length VLGR1 encompasses 6300 amino acids and thus is difficult to analyze by electrophoresis. Vlgr1 is a core component of ankle-link complex in inner ear hair cells. Knock-out and mutation mouse models show that loss of Vlgr1 function leads to abnormal stereociliary development and hearing loss, indicating crucial roles of Vlgr1 in hearing transduction or auditory system development (PMID: 23180093). Western blot analysis detected VLGR1a isoform at an apparent molecular mass of 217 kDa .

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

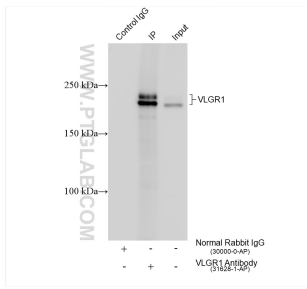
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

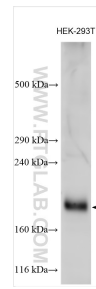
E: proteintech@ptglab.com
W: ptglab.com

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

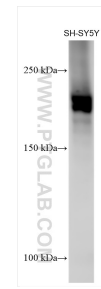
Selected Validation Data



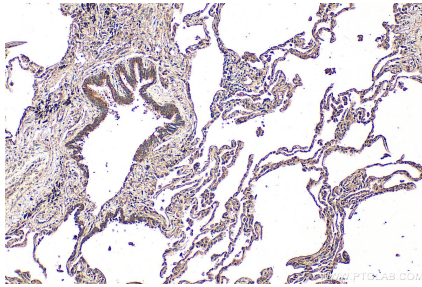
IP result of anti-VLGR1 (IP:31628-1-AP, 4ug; Detection:31628-1-AP 1:500) with SH-SY5Y cells lysate 1920 ug. This data was developed using the same antibody clone with 31628-1-PBS in a different storage buffer formulation.



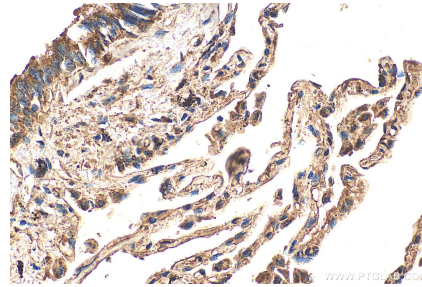
Various lysates were subjected to SDS PAGE followed by western blot with 31628-1-AP (VLGR1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 31628-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 31628-1-AP (VLGR1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 31628-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 31628-1-AP (VLGR1 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31628-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 31628-1-AP (VLGR1 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31628-1-PBS in a different storage buffer formulation.