For Research Use Only

BBS4 Polyclonal antibody

Catalog Number:12766-1-AP Featured Product 17 Publications

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Basic Information

Catalog Number:
12766-1-AP

Size:
150ul , Concentration: 220 µg/ml by Nanodrop and 140 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3430

GenBank Accession Number:
BC027624

GeneID (NCBI):
585

UNIPROT ID:
Q96RK4

Full Name:
Bardet-Biedl syndrome 4

Calculated MW:
519 aa, 58 kDa

Observed MW:
50-60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:4000
IHC 1:20-1:200
IF 1:20-1:200

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
WB,IF

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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 : HEK-293 cells, mouse kidney tissue

IHC : human kidney tissue,

IF : hTERT-RPE1 cells,

Background Information

BBS4 (Bardet-Biedl syndrome protein 4) is one of the early BBS proteins discovered, with 35 mutations reported to cause the BBS phenotype (PMID: 26762677). BBS4 undergoes localization to the centriolar satellites of centrosomes and basal body of primary cilia, where it takes part in recruiting cargo to centriolar satellites and allowing the formation of a functional centrosomal microtubule organizing center (MTOC) (PMID: 25860617). Some research has found that BBS4 expression in humans during the development of CNS and sensory organs, concerning the cardinal clinical signs of BBS (PMID: 33860840).

Notable Publications

Author	Pubmed ID	Journal	Application
Naila Haq	31479441	PLoS Biol	WB,IF
Deniz Conkar	31582766	Sci Rep	WB
Tianyu Wu	36395215	Science	IF

Storage

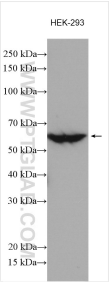
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

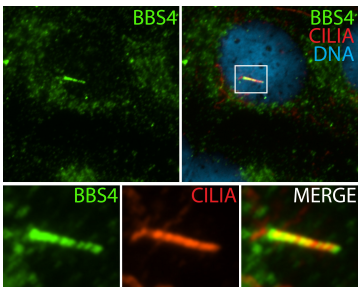
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

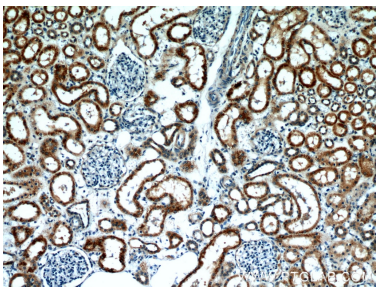
Selected Validation Data



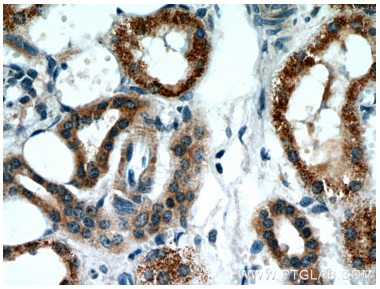
HEK-293 cell lysates were subjected to SDS PAGE followed by western blot with 12766-1-AP (BBS4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IF result (cytoplasm and the length of cilia cilia stain) of anti-BBS4 (12766-1-AP; 1:50) with serum-starved hTERT-RPE1 cell (MeOH fixed) by Dr. Moshe Kim.



Immunohistochemical analysis of paraffin-embedded human kidney using 12766-1-AP (BBS4 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 12766-1-AP (BBS4 antibody) at dilution of 1:50 (under 40x lens).