For Research Use Only

BBS4 Recombinant antibody, PBS Only (Capture)

Catalog Number:82961-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
82961-1-PBS

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

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:
60 kDa

Purification Method:
Protein A purification

CloneNo.:
230303C2

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

82961-1-PBS targets BBS4 as part of a matched antibody pair:

MP00130-1: 82961-1-PBS capture and 82961-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

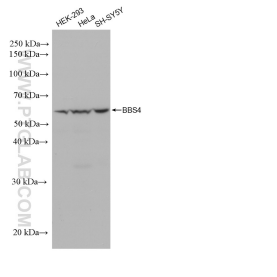
BBS4 (Bardet-Biedl syndrome protein 4) is one of the early BBS proteins discovered, with 35 mutations reported to cause the BBS phenotype (PMID: 26762677). BBS4 undergoes localization to the centriolar satellites of centrosomes and basal body of primary cilia, where it takes part in recruiting cargo 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).

Storage

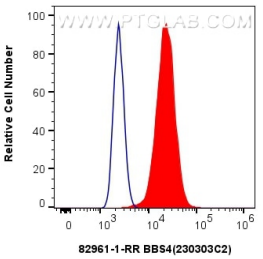
Storage:
Store at -80°C.
Storage Buffer:
100% PBS pH 7.3

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

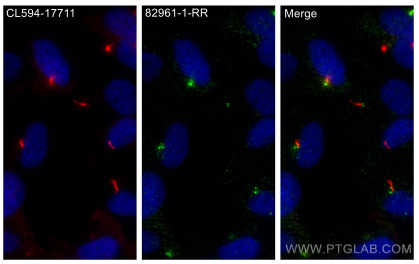
Selected Validation Data



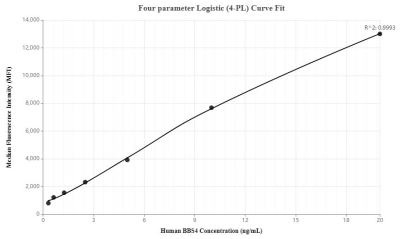
Various lysates were subjected to SDS PAGE followed by western blot with 82961-1-RR (BBS4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82961-1-PBS in a different storage buffer formulation.



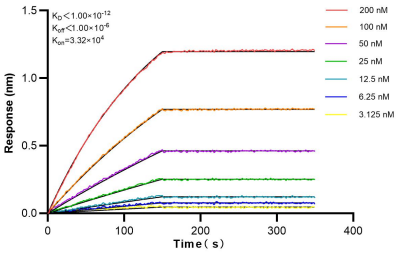
1x10^6 HeLa cells were intracellularly stained with 0.25 ug BBS4 Recombinant antibody (82961-1-RR, Clone:230303C2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 82961-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using BBS4 antibody (82961-1-RR, Clone: 230303C2) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CoraLite®594 ARL13B antibody (CL594-17711, red). This data was developed using the same antibody clone with 82961-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve ofMP00130-1, BBS4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 82961-1-PBS. Detection antibody: 82961-3-PBS. Standard: Ag3430. Range: 0.313-20 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 82961-1-RR against Human BBS4 were performed. The affinity constant is below 1 pM.