

Rabbit BBS4 Polyclonal Antibody | anti-BBS4 antibody

BBS4 Antibody

CATALOG # AAA323182	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

BBS4; Polyclonal Antibody; BBS4 Antibody; Bardet Biedl syndrome 4 protein; Bardet-Biedl syndrome 4 protein; Bbs4; BBS4_HUMAN; anti-BBS4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BBS4 antibody detects endogenous levels of BBS4.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	347
Applicable Applications for anti-BBS4 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BBS4.
Subcellular Location	Cytoplasm > Cytoskeleton > Centrosome. Cytoplasm > Cytoskeleton. Cell Projection > Cilium Membrane. Cytoplasm. Localizes to the pericentriolar region throughout the cell cycle. Centrosomal localization requires dynein. Localizes to nonmembranous centriolar satellites in the cytoplasm.
Tissue Specificity	Ubiquitously expressed. The highest level of expression is found in the kidney.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of HeLa cells, using BBS4 antibody.



IHC (Immunohistochemistry)

AAA323182 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from mouse brain, using BBS4 antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BBS4 antibody

Function: The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to RAB31P/Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the base of the ciliary membrane. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for proper BBSome complex assembly and its ciliary localization. Required for microtubule anchoring at the centrosome but not for microtubule nucleation. May be required for the dynein-mediated transport of pericentriolar proteins to the centrosome.

Subunit Structure: Part of BBSome complex, that contains BBS1, BBS2, BBS4, BBS5, BBS7, BBS8/TTC8, BBS9 and BBIP10. Interacts with PCM1 and DCTN1. Interacts with DC28B. Interacts with ALDOB and C2CD3. Interacts with PKD1 (PubMed:24939912). Interacts with CEP290 (PubMed:23943788).

Similarity: Belongs to the BBS4 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	358248275
NCBI GeneID	585
NCBI Accession #	NP_001239607.1
NCBI GenBank Nucleotide #	NM_001252678.1
UniProt Accession #	Q96RK4; Q53DZ5; Q8NHU9; Q96H45; B4E178
Molecular Weight	Observed: 50-60 kDa Predicted: 59 kDa
NCBI Official Full Name	Bardet-Biedl syndrome 4 protein isoform 2
NCBI Official Synonym Full Names	Bardet-Biedl syndrome 4
NCBI Official Symbol	BBS4
NCBI Protein Information	Bardet-Biedl syndrome 4 protein
UniProt Protein Name	Bardet-Biedl syndrome 4 protein
UniProt Gene Name	BBS4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bbs4-antibody-immunohistochemistry-western-blot-elisa/323182>