

Datasheet for ABIN1944771

anti-BBS5 antibody (AA 108-141)[Go to Product page](#)**1** Image **2** Publications

Overview

Quantity:	400 µL
Target:	BBS5
Binding Specificity:	AA 108-141
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BBS5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This BBS5 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 108-141 amino acids from the Central region of human BBS5.
Clone:	RB47475
Isotype:	Ig Fraction
Predicted Reactivity:	Pr, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	BBS5
Alternative Name:	BBS5 (BBS5 Products)

Target Details

Background: 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 RAB3IP/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 BBSome complex ciliary localization but not for the proper complex assembly.

Molecular Weight: 38755

Gene ID: 129880

UniProt: [Q8N3I7](#)

Pathways: [Hedgehog Signaling](#)

Application Details

Application Notes: WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Expiry Date: 6 months

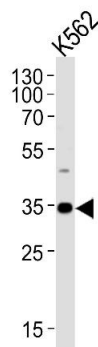
Publications

Product cited in: Hillier, Graves, Fulton, Fulton, Pepin, Minx, Wagner-McPherson, Layman, Wylie, Sekhon, Becker,

Fewell, Delehaunty, Miner, Nash, Kremitzki, Oddy, Du, Sun, Bradshaw-Cordum, Ali, Carter, Cordes, Harris et al.: "Generation and annotation of the DNA sequences of human chromosomes 2 and 4. ..." in: **Nature**, Vol. 434, Issue 7034, pp. 724-31, (2005) ([PubMed](#)).

Li, Gerdes, Haycraft, Fan, Teslovich, May-Simera, Li, Blacque, Li, Leitch, Lewis, Green, Parfrey, Leroux, Davidson, Beales, Guay-Woodford, Yoder, Stormo, Katsanis, Dutcher: "Comparative genomics identifies a flagellar and basal body proteome that includes the BBS5 human disease gene." in: **Cell**, Vol. 117, Issue 4, pp. 541-52, (2004) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of lysate from K562 cell line, using BBS5 Antibody (Center) (ABIN1944771 and ABIN2838514). (ABIN1944771 and ABIN2838514) was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 μ g.