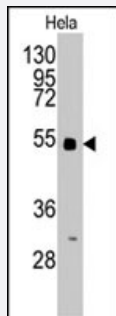


BBS4 polyclonal antibody

Catalog # PAB2963

Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of BBS4 polyclonal antibody (Cat # PAB2963) in HeLa cell line lysates (35 ug/lane). BBS4 (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of BBS4.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human BBS4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of BBS4 polyclonal antibody (Cat # PAB2963) in HeLa cell line lysates (35 ug/lane).BBS4 (arrow) was detected using the purified polyclonal antibody.

Gene Info — BBS4

Entrez GeneID [585](#)

Protein Accession# [NP_149017:Q96RK4](#)

Gene Name BBS4

Gene Alias -

Gene Description Bardet-Biedl syndrome 4

Omim ID [209900 600374](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene is a member of the Bardet-Biedl syndrome (BBS) gene family. Bardet-Biedl syndrome is an autosomal recessive disorder characterized by severe pigmentary retinopathy, obesity, polydactyly, renal malformation and mental retardation. The proteins encoded by BBS gene family members are structurally diverse. The similar phenotypes exhibited by mutations in BBS gene family members are likely due to the protein's shared roles in cilia formation and function. Many BBS proteins localize to the basal bodies, ciliary axonemes, and pericentriolar regions of cells. BBS proteins may also be involved in intracellular trafficking via microtubule-related transport. The protein encoded by this gene has sequence similarity to O-linked N-acetylglucosamine (O-GlcNAc) transferases in plants and archaeobacteria and in human forms a multi-protein "BBSome" complex with six other BBS proteins. Alternative splice variants have been described but their predicted protein products have not been experimentally verified

Other Designations -

Publication Reference

- [A core complex of BBS proteins cooperates with the GTPase Rab8 to promote ciliary membrane biogenesis.](#)

Nachury MV, Loktev AV, Zhang Q, Westlake CJ, Peranen J, Merdes A, Slusarski DC, Scheller RH, Bazan JF, Sheffield VC, Jackson PK.

Cell 2007 Jun; 129(6):1201.

Application: WB-Ti, Mouse, Mouse testis

- [Cloning and characterization of a splice variant of human Bardet-Biedl syndrome 4 gene \(BBS4\).](#)

Ye X, Dai J, Fang W, Jin W, Guo Y, Song J, Ji C, Gu S, Xie Y, Mao Y.

DNA Sequence: the Journal of DNA Sequencing and Mapping 2004 Jun; 15(3):213.

- [The Bardet-Biedl protein BBS4 targets cargo to the pericentriolar region and is required for microtubule anchoring and cell cycle progression.](#)

Kim JC, Badano JL, Sibold S, Esmail MA, Hill J, Hoskins BE, Leitch CC, Venner K, Ansley SJ, Ross AJ, Leroux MR, Katsanis N, Beales PL.

Nature Genetics 2004 May; 36(5):462.

Application: IHC, Mouse, Mouse brains

Disease

- [Bardet-Biedl Syndrome](#)
- [Obesity](#)
- [Retinal Diseases](#)
- [Tobacco Use Disorder](#)