

BBS12 Rabbit pAb

Catalog # AP96258

Product Information

Application	WB, E
Primary Accession	Q6ZW61
Other Accession	Q6ZW61
Predicted	Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79085
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BBS12
Epitope Specificity	25-100/710
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell projection, cilium. Note: Located within the basal body of the primary cilium of differentiating preadipocytes.
SIMILARITY	Belongs to the TCP-1 chaperonin family. BBS12 subfamily.
SUBUNIT	Component of the BBS/CCT complex composed at least of MKKS, BBS10, BBS12, TCP1, CCT2, CCT3, CCT4, CCT5 AND CCT8.
DISEASE	Defects in BBS12 are the cause of Bardet-Biedl syndrome type 12 (BBS12) [MIM:209900]. Bardet-Biedl syndrome (BBS) is a genetically heterogeneous, autosomal recessive disorder characterized by usually severe pigmentary retinopathy, early onset obesity, polydactyly, hypogenitalism, renal malformation and mental retardation. Secondary features include diabetes mellitus, hypertension and congenital heart disease. A relatively high incidence of BBS is found in the mixed Arab populations of Kuwait and in Bedouin tribes throughout the Middle East, most likely due to the high rate of consanguinity in these populations and a founder effect. BBS12 seems to be rarely involved in oligogenic inheritance.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is part of a complex that is involved in membrane trafficking. The encoded protein is a molecular chaperone that aids in protein folding upon ATP hydrolysis. This protein also plays a role in adipocyte differentiation. Defects in this gene are a cause of Bardet-Biedl syndrome type 12. Two transcript variants encoding the same protein have been found for this gene.

Additional Information

Gene ID	166379
Other Names	C4orf24; BBS12_HUMAN; BBS12; Bardet-Biedl syndrome 12 protein; Bardet-Biedl syndrome 12; chromosome 4 open reading frame 24

Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	BBS12
Synonyms	C4orf24
Function	Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of proteins upon ATP hydrolysis. As part of the TRiC complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia (PubMed: 20080638). Involved in adipogenic differentiation (PubMed: 19190184).
Cellular Location	Cell projection, cilium. Note=Located within the basal body of the primary cilium of differentiating preadipocytes

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.