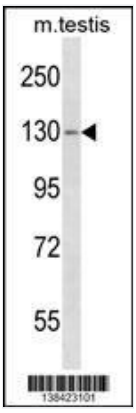
TBC1D2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TBC1D2, Polyclonal Antibody
Full Product Name	TBC1D2, ID (TBC1D2, PARIS1, PP8997, TBC1D2A, TBC1 domain family member 2A, Armus, Prostate antigen recognized and identified by SEREX 1) (AP)
Product Gene Name	anti-TBC1D2 antibody
Product Synonym Names	TBC1D2; PARIS1; PP8997; TBC1D2A; TBC1 domain family member 2A; Armus; Prostate antigen recognized and identified by SEREX 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	609871
3D Structure	ModBase 3D Structure for Q9BYX2
Immunogen	TBC1D2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 437-465 amino acids from the Central region of human TBC1D2.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-TBC1D2 antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-TBC1D2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-TBC1D2 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TBC1D2 antibody	TBC1D2 acts as GTPase-activating protein for RAB7A. Signal effector acting as a linker between RAC1 and RAB7A, leading to RAB7A inactivation and subsequent inhibition of cadherin degradation and reduced cell-cell adhesion.
Product References and Citations for anti-TBC1D2 antibody	Letra, A., et al. Am. J. Med. Genet. A 152A (7), 1701-1710 (2010): Ishibashi, K., et al. Genes Cells 14(1):41-52(2009). Olsen, J.V., et al. Cell 127(3):635-648(2006). Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004). Zhou, Y., et al. Biochem. Biophys. Res. Commun. 290(2):830-838(2002).
Other Notes	Small volumes of anti-TBC1D2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for TBC1D2 purchase	MBS6353864 is an antibody targeting TBC1D2. Also known as TBC1D2, ID (TBC1D2, PARIS1, PP8997, TBC1D2A, TBC1 domain family member 2A, Armus, Prostate antigen recognized and identified by SEREX 1) (AP). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-TBC1D2 antibody
TBC1D2 Antibody (Center) western blot analysis in mouse testis tissue lysates (35ug/lane).This demonstrates the TBC1D2 antibody detected the TBC1D2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TBC1D2. It may not necessarily be applicable to this product.

NCBI GI #	222352143
NCBI GeneID	55357
NCBI Accession #	NP_060891.3
UniProt Primary Accession #	Q9BYX2
UniProt Related Accession #	Q9BYX2
GenBank Nucleotide #	NP_060891.3
NCBI Official Full Name	TBC1 domain family member 2A isoform 2
NCBI Official Synonym Full Names	TBC1 domain family member 2
NCBI Official Symbol	TBC1D2
NCBI Official Synonym Symbols	PARIS1; PARIS-1; TBC1D2A
UniProt Protein Name	TBC1 domain family member 2A
UniProt Synonym Protein Names	Armus; Prostate antigen recognized and identified by SEREX 1
Protein Family	TBC1 domain family
UniProt Gene Name	TBC1D2
UniProt Synonym Gene Names	PARIS1; PP8997; TBC1D2A; PARIS-1
UniProt Entry Name	TBD2A_HUMAN
NCBI Protein Information	TBC1 domain family member 2A

UniProt Comments for TBC1D2	TBC1D2: a putative GTPase activating protein for Rab family protein(s). Expressed in a broad range of tissues. Differentially expressed in prostate normal and cancer cells. Protein type: GAPs, Rab; GAPs Chromosomal Location of Human Ortholog: 9q22.33 Cellular Component: cytoplasmic membrane-bound vesicle; cytoplasmic vesicle; cell junction Molecular Function: protein binding; cadherin binding
Research Articles on TBC1D2	**1.** integration of Rac1 and Rab7 activities by Armus provides an important regulatory node for E-cadherin turnover and stability of cell-cell contacts
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