BRP44 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	BRP44, Monoclonal Antibody
Full Product Name	BRP44 (Brain Protein 44, DKFZp564B167, MGC125752, MGC125753) (MaxLight 650)
Product Gene Name	anti-BRP44 antibody
Product Synonym Names	Brain Protein 44; DKFZp564B167; MGC125752; MGC125753
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2B2
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified
Specificity	Recognizes BRP44.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original
OMIM	614737
3D Structure	ModBase 3D Structure for O95563
Immunogen	BRP44 (NP_056230.1, 1aa-127aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSAAGARGLRATYHRLLDKVELMLPEKLRPLYNHPAGPRTVFFWAPIMKWGLVCAGLADMARPAEKLSTAQSAVLMATGFIWSRYSLVIIPKNWSLFAVN
Conjugate	MaxLight650
Product Categories/Family for anti-BRP44 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-BRP44 antibody	FLISA
Application Notes for anti-BRP44 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BRP44 antibody	MBS6226730 is an antibody targeting BRP44. Also known as BRP44 (Brain Protein 44, DKFZp564B167, MGC125752, MGC125753) (MaxLight 650). H antibody raised against a full-length recombinant BRP44.
Other Notes	Small volumes of anti-BRP44 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRP44. It may not necessarily be applicable to this product.

NCBI GI #	7661602
NCBI GeneID	25874
NCBI Accession #	NP_056230.1
UniProt Primary Accession #	O95563
UniProt Related Accession #	O95563
GenBank Nucleotide #	NP_056230.1
NCBI Official Full Name	mitochondrial pyruvate carrier 2
NCBI Official Synonym Full Names	mitochondrial pyruvate carrier 2
NCBI Official Symbol	MPC2
NCBI Official Synonym Symbols	BRP44; SLC54A2
UniProt Protein Name	Mitochondrial pyruvate carrier 2
UniProt Synonym Protein Names	Brain protein 44
UniProt Gene Name	MPC2
UniProt Synonym Gene Names	BRP44
UniProt Entry Name	MPC2_HUMAN
NCBI Protein Information	mitochondrial pyruvate carrier 2
UniProt Comments for BRP44	BRP44: Mediates the uptake of pyruvate into mitochondria. Belongs to the mitochondrial pyruvate carrier (MPC) family. Protein type: Membrane protein, multi-pass; Mitochondrial Chromosomal Location of Human Ortholog: 1q24 Cellular Component: mitochondrion; mitochondrial inner membrane; integral to membrane; nucleus Molecular Function: pyruvate transmembrane transporter activity Biological Process: cellular metabolic process; mitochondrial pyruvate transport; pyruvate metabolic process
Research Articles on BRP44	**1.** In contrast to MPC1, which co-purifies with a host chaperone, we demonstrated that MPC2 homo-oligomers promote efficient pyruvate transport into proteoliposomes. The derived functional requirements and kinetic features of MPC2 resemble those previously demonstrated for MPC in the literature
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