

Rabbit MCCC2 Polyclonal Antibody | anti-MCCC2 antibody

Anti-MCCC2 Antibody Picoband

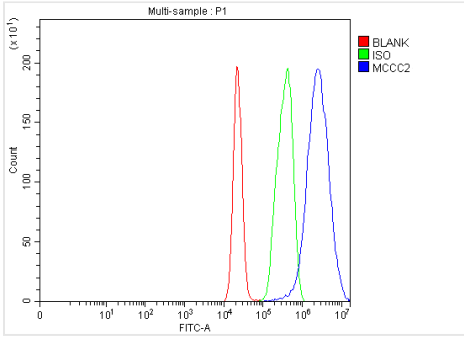
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19873	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

MCCC2; Polyclonal Antibody; Anti-MCCC2 Antibody Picoband; Homeobox protein SIX6; Homeodomain protein OPTX2; Optic homeobox 2; Sine oculis homeobox homolog 6; SIX6; OPTX2; SIX9; anti-MCCC2 antibody

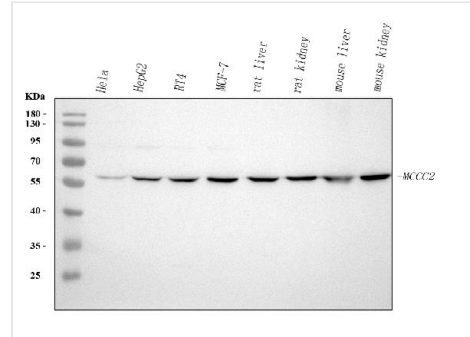
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in the developing and adult retina. Also Expressed in the hypothalamic and the pituitary regions.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MCCC2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human MCCC2 recombinant protein (Position: R21-D330).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	May be involved in eye development.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of MCF-7 cells using anti-MCCC2 antibody (AAA19873). Overlay histogram showing MCF-7 cells stained with AAA19873 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MCCC2 Antibody (AAA19873, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

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ADDITIONAL INFORMATION

Related Product Information for anti-MCCC2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MCCC2 antibody	Primary Antibodies ; Developmental Families ; Domain Families ; Epigenetics and Nuclear Signaling ; Neuroscience ; Sensory System ; Transcription ; Visual System

References	1. Bannwart, C., Wermuth, B., Baumgartner, R., Suormala, T., Wiesmann, U. N. Isolated biotin-resistant deficiency of 3-methylcrotonyl-CoA carboxylase presenting as a clinically severe form in a newborn with fatal outcome. J. Inherit. Metab. Dis. 15: 863-868, 1992. 2. Baumgartner, M. R., Almashanu, S., Suormala, T., Obie, C., Cole, R. N., Packman, S., Baumgartner, E. R., Valle, D. The molecular basis of human 3-methylcrotonyl-CoA carboxylase deficiency. J. Clin. Invest. 107: 495-504, 2001. 3. Baykal, T., Gokcay, G. H., Ince, Z., Dantas, M. F., Fowler, B., Baumgartner, M. R., Demir, F., Can, G., Demirkol, M. Consanguineous 3-methylcrotonyl-CoA carboxylase deficiency: early-onset necrotizing encephalopathy with lethal outcome. J. Inherit. Metab. Dis. 28: 229-233, 2005.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11545863
NCBI GeneID	64087
NCBI Accession #	NP_071415.1
NCBI GenBank Nucleotide #	NM_022132.4
UniProt Accession #	Q9HCC0; Q96C27; Q9Y4L7; A6NIY9
Molecular Weight	57,519 Da
NCBI Official Full Name	methylcrotonoyl-CoA carboxylase beta chain, mitochondrial
NCBI Official Synonym Full Names	methylcrotonoyl-CoA carboxylase 2 (beta)
NCBI Official Symbol	MCCC2
NCBI Official Synonym Symbols	MCCB
NCBI Protein Information	methylcrotonoyl-CoA carboxylase beta chain, mitochondrial; 3-methylcrotonyl-CoA carboxylase 2; 3-methylcrotonyl-CoA carboxylase non-biotin-containing subunit; 3-methylcrotonyl-CoA:carbon dioxide ligase subunit beta; MCCase subunit beta; biotin carboxylase
UniProt Protein Name	Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial
UniProt Gene Name	MCCC2
UniProt Synonym Gene Names	MCCB; MCCase subunit beta
UniProt Entry Name	MCCB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.