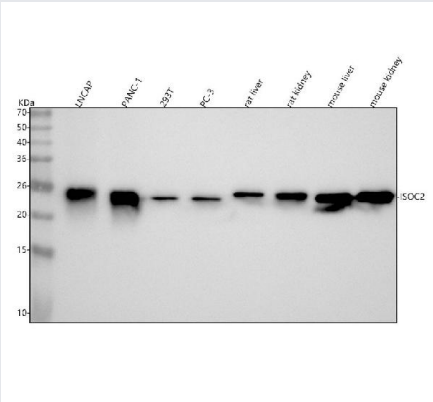
ISOC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ISOC2, Polyclonal Antibody
Full Product Name	Anti-ISOC2 Antibody Picoband
Product Gene Name	anti-ISOC2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
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.
Molecular Weight	14,765 Da
OMIM	612928
3D Structure	ModBase 3D Structure for Q96AB3
Immunogen	E coli-derived human ISOC2 recombinant protein (Position: M1-H205). Human ISOC2 shares 84.2% and 75% amino acid (aa) sequence identity with mouse and rat ISOC2, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-ISOC2 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-ISOC2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ISOC2 antibody	WB: 0.1-0.25ug/ml, Human, Mouse, Rat ELISA: 0.1-0.5ug/ml
Related Product Information for anti-ISOC2 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 References and Citations for anti-ISOC2 antibody	1. Huang, X., Shi, Z., Wang, W., Bai, J., Chen, Z., Xu, J., Zhang, D., Fu, S. Identification and characterization of a novel protein ISOC2 that interacts with p16(INK4a). Biochem. Biophys. Res. Commun. 361: 287-293, 2007.
Other Notes	Small volumes of anti-ISOC2 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 ISOC2 purchase	MBS1759374 is an antibody targeting ISOC2. Also known as Anti-ISOC2 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-ISOC2 antibody

Figure 1. Western blot analysis of ISOC2 using anti-ISOC2 antibody (MBS1759374).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human LNCAP whole cell lysates,Lane 2: human PANC-1 whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human PC-3 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: rat kidney tissue lysates,Lane 7: mouse liver tissue lysates,Lane 8: mouse kidney tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ISOC2 antigen affinity purified polyclonal antibody (#MBS1759374) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for ISOC2 at approximately 22 kDa. The expected band size for ISOC2 is at 22 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ISOC2. It may not necessarily be applicable to this product.

NCBI GI #	209969695
NCBI GeneID	79763
NCBI Accession #	NP_001129673.1
UniProt Primary Accession #	Q96AB3
UniProt Secondary Accession #	Q6ZN91; Q9H5G0
UniProt Related Accession #	Q96AB3
GenBank Nucleotide #	NM_001136201.1
NCBI Official Full Name	isochorismatase domain-containing protein 2, mitochondrial isoform 1
NCBI Official Synonym Full Names	isochorismatase domain containing 2
NCBI Official Symbol	ISOC2
UniProt Protein Name	Isochorismatase domain-containing protein 2, mitochondrial
Protein Family	Isochorismatase domain-containing protein
UniProt Gene Name	ISOC2
UniProt Entry Name	ISOC2_HUMAN
NCBI Protein Information	isochorismatase domain-containing protein 2, mitochondrial

UniProt Comments for ISOC2	ISOC2: Belongs to the isochorismatase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Unknown function Chromosomal Location of Human Ortholog: 19q13.42 Cellular Component: mitochondrion; cytoplasm; nucleus Molecular Function: protein binding; catalytic activity Biological Process: protein destabilization; metabolic process
Research Articles on ISOC2	**1.** ISOC2 is a novel functional protein, which is able to bind and co-localize with a tumor suppressor gene p16(INK4a).
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