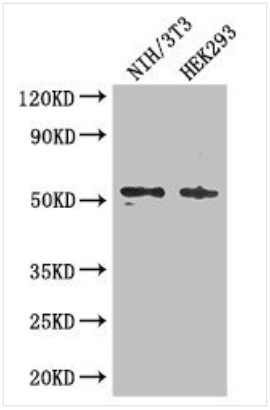
RTCB Antibody – Rabbit Polyclonal

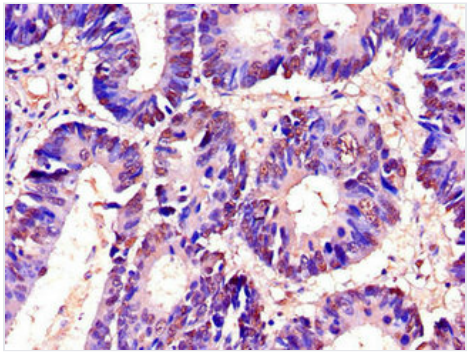
PRODUCT OVERVIEW

Product Name	RTCB, Polyclonal Antibody
Full Product Name	RTCB Antibody
Product Gene Name	anti-RTCB antibody
Product Synonym Names	tRNA-splicing ligase RtcB homologUniRule annotation; RTCB
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: RTCB (MBS7051688) HRP Conjugated Antibody: RTCB (MBS7051689)
Matching Pairs	Unconjugated Antibody: RTCB (MBS7051688) FITC Conjugated Antibody: RTCB (MBS7051690)
Matching Pairs	Unconjugated Antibody: RTCB (MBS7051688) Biotin Conjugated Antibody: RTCB (MBS7051691)
Molecular Weight	55,210 Da
OMIM	AL050255 mRNA
3D Structure	ModBase 3D Structure for Q9Y3I0
Immunogen	Recombinant human tRNA-splicing ligase RtcB homolog protein (52-229AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-86491 / sc-86492
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RTCB antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-RTCB antibody	WB: 1: 1000-1: 5000 IHC: 1: 20-1: 200 IF: 1: 50-1: 200
Related Product Information for anti-RTCB antibody	Catalytic subunit of the tRNA-splicing ligase complex that acts by directly joining spliced tRNA halves to mature-sized tRNAs by incorporating the precursor-derived splice junction phosphate into the mature tRNA as a canonical 3', 5'-phosphodiester. May act as an RNA ligase with broad substrate specificity, and may function toward other RNAs.

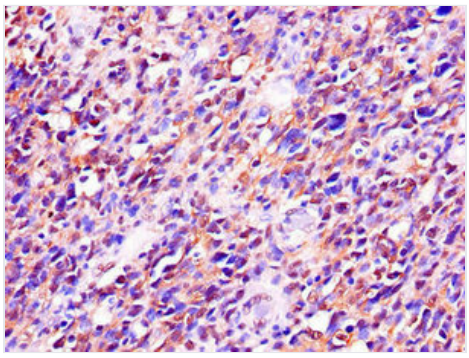
Other Notes	Small volumes of anti-RTCB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RTCB purchase	MBS7051688 is an antibody targeting RTCB. Also known as RTCB Antibody. Reactive in Human, Mouse. Host: Rabbit.



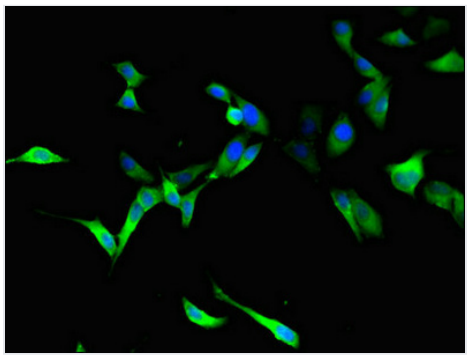
Western Blot (WB) of anti-RTCB antibody
Western BlotPositive WB detected in:NIH/3T3 whole cell lysate,HEK293 whole cell lysateAll lanes: RTCB antibody at 3ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 56 kDaObserved band size: 56 kDa



Immunohistochemistry (IHC) of anti-RTCB antibody
Immunohistochemistry of paraffin-embedded human colon cancer using MBS7051688 at dilution of 1:100



Immunohistochemistry (IHC) of anti-RTCB antibody
Immunohistochemistry of paraffin-embedded human glioma cancer using MBS7051688 at dilution of 1:100



Immunofluorescence (IF) of anti-RTCB antibody
Immunofluorescent analysis of Hela cells using MBS7051688 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

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

NCBI GI #	7657015
NCBI GeneID	51493
NCBI Accession #	NP_055121.1
UniProt Primary Accession #	Q9Y3I0
UniProt Secondary Accession #	Q6IAI0; Q9BWL4; Q9NTH1; Q9P037; Q9P0J3; B2R6A8
UniProt Related Accession #	Q9Y3I0
GenBank Nucleotide #	NM_014306.4
NCBI Official Full Name	tRNA-splicing ligase RtcB homolog
NCBI Official Synonym Full Names	RNA 2',3'-cyclic phosphate and 5'-OH ligase
NCBI Official Symbol	RTCB
NCBI Official Synonym Symbols	FAAP; HSPC117; C22orf28; DJ149A16.6

UniProt Protein Name	tRNA-splicing ligase RtcB homolog
Protein Family	RNA-splicing ligase
UniProt Gene Name	RTCB
UniProt Entry Name	RTCB_HUMAN
NCBI Protein Information	tRNA-splicing ligase RtcB homolog
UniProt Comments for RTCB	RTCB: Catalytic subunit of the tRNA-splicing ligase complex that acts by directly joining spliced tRNA halves to mature-sized tRNAs by incorporating the precursor-derived splice junction phosphate into the mature tRNA as a canonical 3',5'- phosphodiester. May act as a RNA ligase with broad substrate specificity, and may function toward other RNAs. Belongs to the RtcB family. Protein type: EC 6.5.1.3 Chromosomal Location of Human Ortholog: 22q12 Cellular Component: cytoplasm; endoplasmic reticulum membrane; nuclear envelope; nucleoplasm; nucleus Molecular Function: protein binding; RNA ligase (ATP) activity; vinculin binding Biological Process: tRNA splicing
Research Articles on RTCB	**1.** RTCB, the catalytic subunit of the tRNA ligase complex, and its co-factor archease mediate XBP1 mRNA splicing both in vitro and in vivo.
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