YTHDC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	YTHDC1, Polyclonal Antibody
Full Product Name	YTHDC1 Antibody, FITC conjugated
Product Gene Name	anti-YTHDC1 antibody
Product Synonym Names	YTH domain-containing protein 1Curated; Splicing factor YT5211; YTHDC1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
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: YTHDC1 (MBS7050984) FITC Conjugated Antibody: YTHDC1 (MBS7050986)
Molecular Weight	82,692 Da
3D Structure	ModBase 3D Structure for Q96MU7
Immunogen	Recombinant human YTH domain-containing protein 1 protein (89-153AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-160929 / sc-160931
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-YTHDC1 antibody	ELISA (EIA)
Related Product Information for anti-YTHDC1 antibody	Regulator of alternative splicing that specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs (PubMed: 26318451, PubMed: 26876937, PubMed: 25242552). M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing, processing and stability (PubMed: 26318451, PubMed: 25242552). Acts as a key regulator of exon-inclusion or exon-skipping during alternative splicing via interaction with mRNA splicing factors SRSF3 and SRSF10 (PubMed: 26876937). Specifically binds m6A-containing mRNAs and promotes recruitment of SRSF3 to its mRNA-binding elements adjacent to m6A sites, leading to exon-inclusion during alternative splicing (PubMed: 26876937). In contrast, interaction with SRSF3 prevents interaction with SRSF10, a splicing factor that promotes exon skipping: this prevents SRSF10 from binding to its mRNA-binding sites close to m6A-containing regions, leading to inhibit exon skipping during alternative splicing (PubMed: 26876937). May also regulate alternative splice site selection (PubMed: 20167602).
Other Notes	Small volumes of anti-YTHDC1 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 YTHDC1 purchase	MBS7050986 is an antibody targeting YTHDC1. Also known as YTHDC1 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for YTHDC1. It may not necessarily be applicable to this product.

NCBI GI #	72534750
NCBI GeneID	91746
NCBI Accession #	NP_001026902.1
UniProt Primary Accession #	Q96MU7
UniProt Secondary Accession #	Q4W5Q3; Q7Z622; Q8TF35
UniProt Related Accession #	Q96MU7
GenBank Nucleotide #	NM_001031732.3
NCBI Official Full Name	YTH domain-containing protein 1 isoform 1
NCBI Official Synonym Full Names	YTH domain containing 1
NCBI Official Symbol	YTHDC1
NCBI Official Synonym Symbols	YT521; YT521-B
UniProt Protein Name	YTH domain-containing protein 1
UniProt Synonym Protein Names	Splicing factor YT521
Protein Family	YTH domain-containing protein
UniProt Gene Name	YTHDC1
UniProt Synonym Gene Names	YT521-B
UniProt Entry Name	YTDC1_HUMAN
NCBI Protein Information	YTH domain-containing protein 1
UniProt Comments for YTHDC1	YT521: May be part of a signal transduction pathway that influences splice site selection. 2 isoforms of the human protein are produced by alternative splicing. Protein type: RNA splicing; RNA-binding Chromosomal Location of Human Ortholog: 4q13.2 Cellular Component: nuclear speck; nucleus Molecular Function: protein binding; RNA binding Biological Process: mRNA splice site selection; regulation of nuclear mRNA splicing, via spliceosome
Research Articles on YTHDC1	**1.** Results show that YTHDC1 promotes exon inclusion in targeted mRNAs through recruiting pre-mRNA splicing factor SRSF3 while blocking SRSF10 mRNA binding.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/ythdc1/7050986