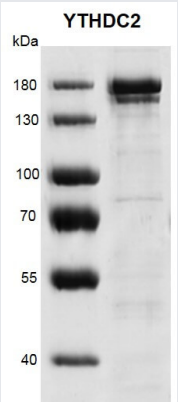
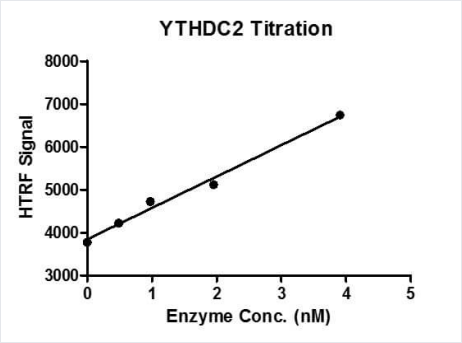
YTHDC2 Recombinant Protein

PRODUCT OVERVIEW

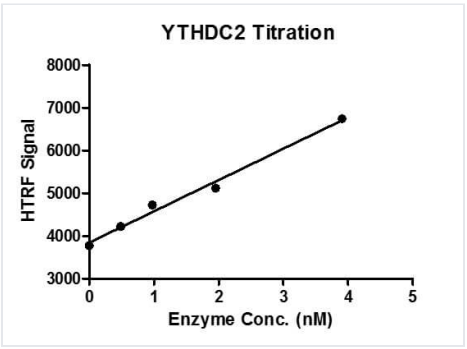
Product Name	YTHDC2, Recombinant Protein
Full Product Name	Recombinant YTHDC2 protein
Product Gene Name	YTHDC2 recombinant protein
Product Synonym Names	YTH Domain Containing 2
Host	Baculovirus
Form/Format	Recombinant YTHDC2 protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice
Molecular Weight	160,248 Da
OMIM	AC093208 Genomic DNA
3D Structure	ModBase 3D Structure for Q9H6S0
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant YTHDC2 protein is suitable for use in the study of binding assay, inhibitor screening, and selectivity profiling.
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for YTHDC2 recombinant protein	Recombinant Proteins; Transcription
Related Product Information for YTHDC2 recombinant protein	Short Description: Recombinant YTHDC2 protein was expressed in a baculovirus expression system as the full-length protein (accession number NP_073739.3) with an N-terminal DYKDDDDK tag. The molecular weight of the protein is 161.5 kDa. It is suitable for use in binding assays, inhibitor screening, and selectivity profiling. Background: YTHDC2 (YTH Domain Containing 2), is a member of the DEAH (Asp-Glu-Ala-His) subfamily of proteins, part of the DEAD (Asp-Glu-Ala-Asp) box family of RNA helicases. It specifically recognizes and binds to N6-methyladenosine (m6A), a common modified RNA nucleotide that is enriched in the stop codons and 3' UTRs of eukaryotic mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing, processing and stability. YTHDC2 may be associated with susceptibility to pancreatic cancer in human patients, and knockdown of this gene resulted in reduced proliferation in a human liver cancer cell line.
Other Notes	Small volumes of YTHDC2 recombinant protein 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 YTHDC2 purchase	MBS389251 is a recombinant protein targeting YTHDC2. Also known as Recombinant YTHDC2 protein. Host: Baculovirus.



SDS-Page of YTHDC2 recombinant protein
Recombinant YTHDC2 protein gel 8% SDS-PAGE Coomassie staining MW: 161.5 kDa
Purity: >87%



Testing Data of YTHDC2 recombinant protein
Recombinant YTHDC2 binding assay 3 uM biotinylated ssDNA m6A oligos (GTTGG/m6A/CTT) were incubated with different concentrations of YTHDC2 protein in a 10 ul system containing 50 mM HEPES-NaOH pH 7.4, and 0.1% BSA for 1 hour, then 10 ul DYKDDDDK antibody and SA-XL665 mixture (each 1:100 dilution reaction buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for YTHDC2. It may not necessarily be applicable to this product.

NCBI GI #	269847874
NCBI GeneID	64848
NCBI Accession #	NP_073739.3
UniProt Primary Accession #	Q9H6S0
UniProt Secondary Accession #	B2RP66
UniProt Related Accession #	Q9H6S0
GenBank Nucleotide #	NM_022828.4
NCBI Official Full Name	probable ATP-dependent RNA helicase YTHDC2 isoform 1
NCBI Official Synonym Full Names	YTH domain containing 2
NCBI Official Symbol	YTHDC2
NCBI Official Synonym Symbols	CAHL
UniProt Protein Name	Probable ATP-dependent RNA helicase YTHDC2

UniProt Synonym Protein Names	YTH domain-containing protein 2
Protein Family	Probable ATP-dependent RNA helicase
UniProt Gene Name	YTHDC2
NCBI Protein Information	probable ATP-dependent RNA helicase YTHDC2
NCBI Summary for YTHDC2	This gene encodes a member of the DEAH (Asp-Glu-Ala-His) subfamily of proteins, part of the DEAD (Asp-Glu-Ala-Asp) box family of RNA helicases. The encoded protein binds to N6-methyladenosine, a common modified RNA nucleotide that is enriched in the stop codons and 3' UTRs of eukaryotic messenger RNAs. Binding of proteins to this modified nucleotide may regulate mRNA translation and stability. This gene may be associated with susceptibility to pancreatic cancer in human patients, and knockdown of this gene resulted in reduced proliferation in a human liver cancer cell line. [provided by RefSeq, Sep 2016]
UniProt Comments for YTHDC2	YTHDC2: Belongs to the DEAD box helicase family. DEAH subfamily. Protein type: EC 3.6.4.13; RNA-binding Chromosomal Location of Human Ortholog: 5q22.2 Cellular Component: endoplasmic reticulum Molecular Function: ATP binding; ATP-dependent RNA helicase activity; N6-methyladenosine-containing RNA binding; protein binding; RNA binding; RNA polymerase binding; RNA-dependent ATPase activity Biological Process: response to tumor necrosis factor; RNA processing
Research Articles on YTHDC2	**1.** Suggest that RNA helicase YTHDC2 contributes to colon adenocarcinoma metastasis by promoting translation of HIF-1alpha.
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.
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Online datasheet: https://www.mybiosource.com/recombinant-protein/ythdc2/389251