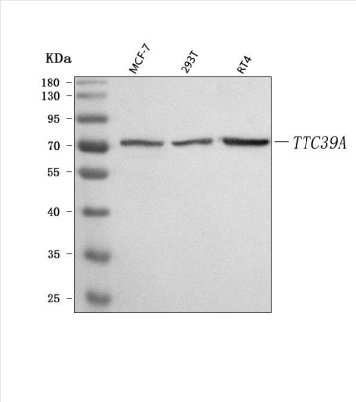
TTC39A Antibody – Rabbit Polyclonal

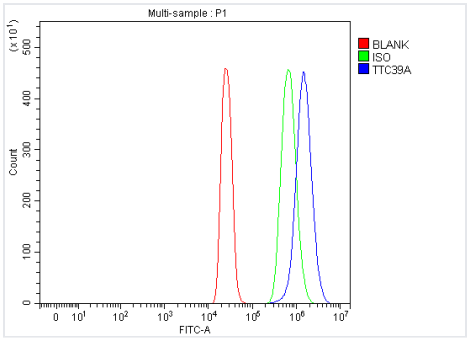
PRODUCT OVERVIEW

Product Name	TTC39A, Polyclonal Antibody
Full Product Name	Anti-TTC39A Antibody Picoband
Product Gene Name	anti-TTC39A antibody
Product Synonym Names	Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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	69,778 Da
3D Structure	ModBase 3D Structure for Q5SRH9
Immunogen	E coli-derived human TTC39A recombinant protein (Position: E18-E489).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
Product Categories/Family for anti-TTC39A antibody	Primary Antibodies; Cell Biology
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-TTC39A antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-TTC39A antibody	WB: 0.25-0.5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-TTC39A 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-TTC39A antibody	1. Gross, M. B. Personal Communication. Baltimore, Md. 5/24/2022.2. Seki, N., Ohira, M., Nagase, T., Ishikawa, K., Miyajima, N., Nakajima, D., Nomura, N., Ohara, O. Characterization of cDNA clones in size-fractionated cDNA libraries from human brain. DNA Res. 4: 345-349, 1997.
Other Notes	Small volumes of anti-TTC39A 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 TTC39A purchase	MBS1759472 is an antibody targeting TTC39A. Also known as Anti-TTC39A Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TTC39A antibody
Figure 1. Western blot analysis of TTC39A using anti-TTC39A antibody (MBS1759472).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 MCF-7 whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human RT4 whole cell 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-TTC39A antigen affinity purified polyclonal antibody (#MBS1759472) at 0.5ug/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 TTC39A at approximately 72 kDa. The expected band size for TTC39A is at 70 kDa.



Flow Cytometry (FC/FACS) of anti-TTC39A antibody
Figure 2. Flow Cytometry analysis of 293T cells using anti-TTC39A antibody (MBS1759472).Overlay histogram showing 293T cells stained with MBS1759472 (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-TTC39A Antibody (MBS1759472, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TTC39A. It may not necessarily be applicable to this product.

NCBI GI #	122937436
NCBI GeneID	22996
NCBI Accession #	NP_001073963.1
UniProt Primary Accession #	Q5SRH9
UniProt Secondary Accession #	O43417; O75040; Q5SRH5; Q5SRH6; Q5SRH7; Q5SRH8; Q5SRI0; Q5SRI1; B7Z782; E7EQY9; G3XAF8
UniProt Related Accession #	Q5SRH9
GenBank Nucleotide #	NM_001080494.3
NCBI Official Full Name	tetratricopeptide repeat protein 39A isoform 2
NCBI Official Synonym Full Names	tetratricopeptide repeat domain 39A
NCBI Official Symbol	TTC39A
NCBI Official Synonym Symbols	DEME-6; C1orf34
UniProt Protein Name	Tetratricopeptide repeat protein 39A

UniProt Synonym Protein Names	Differentially expressed in MCF7 with estradiol protein 6; DEME-6
Protein Family	Tetratricopeptide repeat protein
UniProt Gene Name	TTC39A
UniProt Synonym Gene Names	C1orf34; KIAA0452; TPR repeat protein 39A; DEME-6
UniProt Entry Name	TT39A_HUMAN
NCBI Protein Information	tetratricopeptide repeat protein 39A; TPR repeat protein 39A; differentially expressed in MCF7 with estradiol protein 6
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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