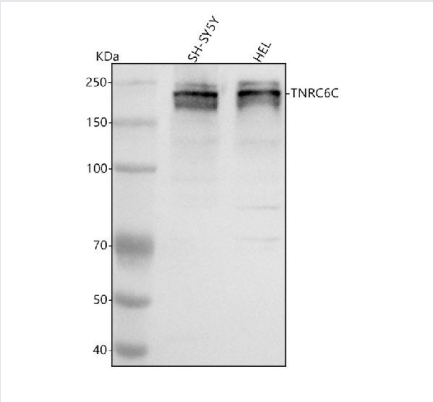
TNRC6C Antibody – Rabbit Polyclonal

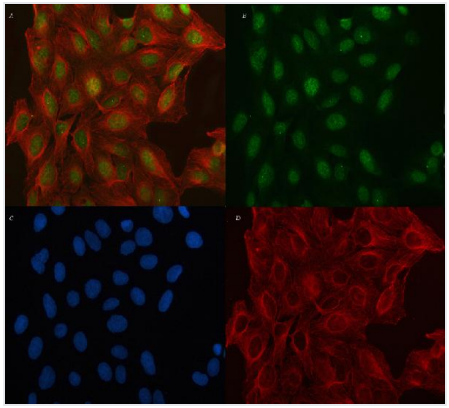
PRODUCT OVERVIEW

Product Name	TNRC6C, Polyclonal Antibody
Full Product Name	Anti-TNRC6C Antibody Picoband
Product Gene Name	anti-TNRC6C antibody
Clonality	Polyclonal
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.
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	175,964 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (76000194..76104916). Location: 17q25.3
OMIM	610741
3D Structure	ModBase 3D Structure for Q9HCJ0
Immunogen	E coli-derived human TNRC6C recombinant protein (Position: H983-E1216). Human TNRC6C shares 89.3% amino acid (aa) sequence identity with mouse TNRC6C.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-TNRC6C antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-TNRC6C antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-TNRC6C antibody	WB: 0.25-0.5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-TNRC6C 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-TNRC6C antibody	1. Nagase, T., Kikuno, R., Nakayama, M., Hirosawa, M., Ohara, O. Prediction of the coding sequences of unidentified human genes. XVIII. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 7: 273-281, 2000.2. Schneider, M. D., Najand, N., Chaker, S., Pare, J. M., Haskins, J., Hughes, S. C., Hobman, T. C., Locke, J., Simmonds, A. J. Gawky is a component of cytoplasmic mRNA processing bodies required for early Drosophila development. J. Cell Biol. 174: 349-358, 2006.
Other Notes	Small volumes of anti-TNRC6C 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 TNRC6C purchase	MBS1758985 is an antibody targeting TNRC6C. Also known as Anti-TNRC6C Antibody Picoband. Reactive in Human. Host: Rabbit.



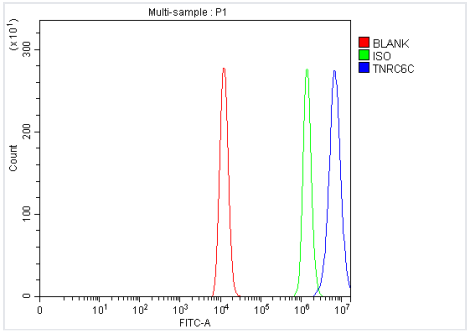
Western Blot (WB) of anti-TNRC6C antibody

Figure 1. Western blot analysis of TNRC6C using anti-TNRC6C antibody (MBS1758985).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 SH-SY5Y whole cell lysates,Lane 2: human HEL 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-TNRC6C antigen affinity purified polyclonal antibody (#MBS1758985) 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 TNRC6C at approximately 210 kDa. The expected band size for TNRC6C is at 176 kDa.



Immunofluorescence (IF) of anti-TNRC6C antibody

Figure 2. IF analysis of TNRC6C using anti-TNRC6C antibody (MBS1758985) and anti-Beta Tubulin antibody (M01857-3).TNRC6C was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-TNRC6C Antibody (MBS1758985) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (MBS177405)(B) and DyLight550 Conjugated Goat Anti-Mouse IgG (BA1133)(D) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI(C). Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry (FC/FACS) of anti-TNRC6C antibody

Figure 3. Flow Cytometry analysis of HEL cells using anti-TNRC6C antibody (MBS1758985).Overlay histogram showing HEL cells stained with MBS1758985 (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-TNRC6C Antibody (MBS1758985, 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 TNRC6C. It may not necessarily be applicable to this product.

NCBI GI #	217416332
NCBI GeneID	57690
NCBI Accession #	NP_001136112.1
UniProt Primary Accession #	Q9HCJ0
UniProt Secondary Accession #	Q86UE5; Q8N3D8; Q96MU9
UniProt Related Accession #	Q9HCJ0
GenBank Nucleotide #	NM_001142640.1

NCBI Official Full Name	trinucleotide repeat-containing gene 6C protein isoform 1
NCBI Official Synonym Full Names	trinucleotide repeat containing 6C
NCBI Official Symbol	TNRC6C
UniProt Protein Name	Trinucleotide repeat-containing gene 6C protein
Protein Family	Trinucleotide repeat-containing gene 6C protein
UniProt Gene Name	TNRC6C
UniProt Synonym Gene Names	KIAA1582
UniProt Entry Name	TNR6C_HUMAN
NCBI Protein Information	trinucleotide repeat-containing gene 6C protein
UniProt Comments for TNRC6C	Function: Plays a role in RNA-mediated gene silencing by micro-RNAs (miRNAs). Required for miRNA-dependent translational repression of complementary mRNAs by argonaute family proteins. As scaffoldng protein associates with argonaute proteins bound to partially complementary mRNAs and simultaneously can recruit CCR4-NOT and PAN deadenylase complexes. Ref.8 Ref.11 Ref.12 Ref.13 Subunit structure: Interacts with one or more of the argonaute family proteins AGO1, AGO2, AGO3 and AGO4. Interacts with PABPC1 and EIF4G1. Interacts with CNOT1; the interaction is direct and mediates the association with the CCR4-NOT complex. Interacts with PAN3; the interaction mediates the association with the PAN complex. Ref.7 Ref.8 Ref.9 Ref.11 Ref.12 Ref.13 Domain: The silencing domain, also known as C-terminal effector domain (CED), can act in autonomous repression, including both translational inhibition and mRNA degradation. Sequence similarities: Belongs to the GW182 family.Contains 1 RRM (RNA recognition motif) domain.Contains 1 UBA domain. Sequence caution: The sequence BAB13408.2 differs from that shown. Reason: Erroneous initiation. The sequence BAB71179.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on TNRC6C	**1.** These findings reveal that despite species-specific differences in the relative strength of the PABPC1-binding sites, the interaction between GW182 proteins and PABPC1 is critical for miRNA-mediated silencing in animal cells.
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