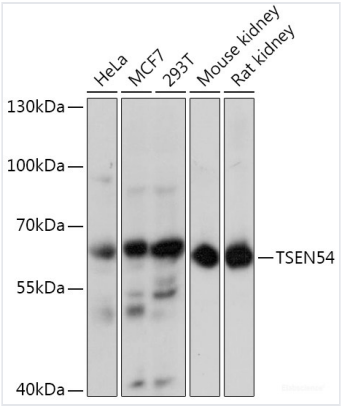
TSEN54 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TSEN54, Polyclonal Antibody
Full Product Name	TSEN54 Polyclonal Antibody
Product Gene Name	anti-TSEN54 antibody
Product Synonym Names	TSEN54; PCH2A; PCH4; PCH5; SEN54L; sen54
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.01% thiomersal,50% glycerol,pH7.3.
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Storage: -20 degree C/One year. Avoid freeze/thaw cycles.
Molecular Weight	58,819 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (73512609..73520820). Location: 17q25.1
OMIM	225753
3D Structure	ModBase 3D Structure for Q7Z6J9
Immunogen	Recombinant fusion protein of human TSEN54
Product Categories/Family for anti-TSEN54 antibody	Antibodies; Primary Antibodies; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TSEN54 antibody	Western Blot (WB)
Application Notes for anti-TSEN54 antibody	WB: 1:500-1:2000
Related Product Information for anti-TSEN54 antibody	This gene encodes a subunit of the tRNA splicing endonuclease complex, which catalyzes the removal of introns from precursor tRNAs. The complex is also implicated in pre-mRNA 3-prime end processing. Mutations in this gene result in pontocerebellar hypoplasia type 2.
Other Notes	Small volumes of anti-TSEN54 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 TSEN54 purchase	MBS2573765 is an antibody targeting TSEN54. Also known as TSEN54 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-TSEN54 antibody
Western blot analysis of extracts of various cell lines using TSEN54 Polyclonal Antibody at1:3000 dilution.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TSEN54. It may not necessarily be applicable to this product.

NCBI GI #	108389176
NCBI GeneID	283989
NCBI Accession #	NP_997229.2
UniProt Primary Accession #	Q7Z6J9
UniProt Secondary Accession #	Q86WV3; Q86XE4; Q8N9H2
UniProt Related Accession #	Q7Z6J9
GenBank Nucleotide #	NM_207346.2
NCBI Official Full Name	tRNA-splicing endonuclease subunit Sen54
NCBI Official Synonym Full Names	tRNA splicing endonuclease 54 homolog (S. cerevisiae)
NCBI Official Symbol	TSEN54
NCBI Official Synonym Symbols	PCH4; PCH2A; sen54; SEN54L
UniProt Protein Name	tRNA-splicing endonuclease subunit Sen54
UniProt Synonym Protein Names	SEN54 homolog; HsSEN54; tRNA-intron endonuclease Sen54
Protein Family	tRNA-splicing endonuclease
UniProt Gene Name	TSEN54
UniProt Synonym Gene Names	SEN54; HsSEN54
UniProt Entry Name	SEN54_HUMAN
NCBI Protein Information	tRNA-splicing endonuclease subunit Sen54; hsSen54; SEN54 homolog; tRNA-intron endonuclease Sen54

UniProt Comments for TSEN54	TSEN54: Non-catalytic subunit of the tRNA-splicing endonuclease complex, a complex responsible for identification and cleavage of the splice sites in pre-tRNA. It cleaves pre-tRNA at the 5' and 3' splice sites to release the intron. The products are an intron and two tRNA half-molecules bearing 2',3' cyclic phosphate and 5'-OH termini. There are no conserved sequences at the splice sites, but the intron is invariably located at the same site in the gene, placing the splice sites an invariant distance from the constant structural features of the tRNA body. The tRNA splicing endonuclease is also involved in mRNA processing via its association with pre-mRNA 3' end processing factors, establishing a link between pre-tRNA splicing and pre-mRNA 3' end formation, suggesting that the endonuclease subunits function in multiple RNA-processing events. Defects in TSEN54 are the cause of pontocerebellar hypoplasia type 4 (PCH4). Pontocerebellar hypoplasia (PCH) is a heterogeneous group of disorders characterized by an abnormally small cerebellum and brainstem. PCH4 is characterized by severe course and early lethality. Defects in TSEN54 are the cause of pontocerebellar hypoplasia type 2A (PCH2A). Pontocerebellar hypoplasia (PCH) is a heterogeneous group of disorders characterized by an abnormally small cerebellum and brainstem. PCH type 2 is characterized by progressive microcephaly from birth combined with extrapyramidal dyskinesia and chorea, epilepsy, and normal spinal cord findings. Belongs to the SEN54 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleolus Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: nucleolus Biological Process: tRNA splicing; mRNA processing Disease: Pontocerebellar Hypoplasia, Type 4; Pontocerebellar Hypoplasia, Type 2a
Research Articles on TSEN54	**1.** TSEN54 mutation causes a severe form of pontocerebellar hypoplasia type 1 in a family.
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-mouse-rat-antibody/tsen54/2573765