

Rabbit anti-Human, Mouse TSEN54 Polyclonal Antibody | anti-TSEN54 antibody

TSEN54 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325224	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TSEN54; Polyclonal Antibody; TSEN54 Antibody; HsSen54; PCH2A; PCH4; sen54; SEN54 homolog; SEN54_HUMAN; SEN54L; tRNA-intron endonuclease SEN54; tRNA-splicing endonuclease subunit SEN54; Tsen54; TSEN54 tRNA splicing endonuclease subunit; anti-TSEN54 antibody

PRODUCT SPECIFICATIONS

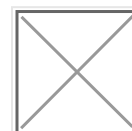
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	TSEN54 antibody detects endogenous levels of total TSEN54
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	526
Applicable Applications for anti-TSEN54 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus
Predicted Cross Reactivity	Bovine
Similarity	Bovine (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA325224 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from 3T3 cells using TSEN54 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325224 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TSEN54 antibody	Function: 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. Subunit Structure: tRNA splicing endonuclease is a heterotetramer composed of TSEN2, TSEN15, TSEN34/LENG5 and TSEN54. tRNA splicing endonuclease complex also contains proteins of the pre-mRNA 3'-end processing machinery such as CLP1, CPSF1, CPSF4 and CSTF2. Also belongs to a complex containing isoform 2 of SEN2. Similarity: Belongs to the SEN54 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	108389176
NCBI GeneID	283989
NCBI Accession #	NP_997229.2
NCBI GenBank Nucleotide #	NM_207346.2
UniProt Accession #	Q7Z6J9 ; Q86WV3 ; Q86XE4 ; Q8N9H2
Molecular Weight	Observed: 59 kD Predicted: 59 kDa
NCBI Official Full Name	tRNA-splicing endonuclease subunit Sen54
NCBI Official Synonym Full Names	tRNA splicing endonuclease subunit 54
NCBI Official Symbol	TSEN54
NCBI Official Synonym Symbols	PCH4; PCH5; PCH2A; sen54; SEN54L
NCBI Protein Information	tRNA-splicing endonuclease subunit Sen54
UniProt Protein Name	tRNA-splicing endonuclease subunit Sen54
UniProt Gene Name	TSEN54
UniProt Synonym Gene Names	SEN54; HsSEN54

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.