

## Rabbit anti-Human TSEN2 Polyclonal Antibody | anti-TSEN2 antibody

TSEN2 Antibody

|                               |                       |                            |                                                                  |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA323354</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

TSEN2; Polyclonal Antibody; TSEN2 Antibody; HsSen2; MGC2776; MGC4440; SEN2; SEN2\_HUMAN; SEN2L; tRNA intron endonuclease Sen2; tRNA splicing endonuclease 2 homolog (SEN2; S. cerevisiae); tRNA splicing endonuclease subunit Sen2; tRNA-intron endonuclease sen2; tRNA-splicing endonuclease subunit Sen2; TSEN 2; anti-TSEN2 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                        |
| Reactivity                                      | Human                                                                                         |
| Clonality                                       | Polyclonal                                                                                    |
| Isotype                                         | IgG                                                                                           |
| Specificity                                     | TSEN2 antibody detects endogenous levels of total TSEN2                                       |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                 | 465                                                                                           |
| Applicable Applications for anti-TSEN2 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                       | A synthesized peptide                                                                         |
| Subcellular Location                            | Nucleus                                                                                       |
| Tissue Specificity                              | Isoform 1 and isoform 2 are widely expressed at very low level.                               |
| Conjugation                                     | Unconjugated                                                                                  |

### IMAGES



#### WB (Western Blot)

Western blot analysis of TSEN2 expression in TSEN2 transfected 293T lysate, The lane on the left is treated with the antigen-specific peptide.



#### IHC (Immunohistochemistry)

AAA323354 at 1/100 staining Human breast cancer 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.

ADDITIONAL INFORMATION

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| Related Product Information for anti-TSEN2 antibody | <p>Description: Constitutes one of the two 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. Isoform 1 probably carries the active site for 5'-splice site cleavage. 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. Isoform 2 is responsible for processing a yet unknown RNA substrate. The complex containing isoform 2 is not able to cleave pre-tRNAs properly, although it retains endonucleolytic activity. Subunit Structure: tRNA splicing endonuclease is a heterotetramer composed of isoform 1 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. Isoform 2 belongs to a different complex that contains TSEN54 but low level of TSEN15 and TSEN34/LENG5.</p> <p>Similarity: Belongs to the tRNA-intron endonuclease family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| NCBI GI #                        | 223972632                                         |
| NCBI GeneID                      | 80746                                             |
| NCBI Accession #                 | NP_001138864.1                                    |
| NCBI GenBank Nucleotide #        | NM_001145392.1                                    |
| UniProt Accession #              | Q8NCE0; Q8WTW7; Q9BPU7; B7Z6K1; C9IZI7; G5E9Q3    |
| Molecular Weight                 | Observed: 54 kDa<br>Predicted: 54 kDa             |
| NCBI Official Full Name          | tRNA-splicing endonuclease subunit Sen2 isoform 1 |
| NCBI Official Synonym Full Names | tRNA splicing endonuclease subunit 2              |
| NCBI Official Symbol             | TSEN2                                             |
| NCBI Official Synonym Symbols    | SEN2; PCH2B; SEN2L                                |
| NCBI Protein Information         | tRNA-splicing endonuclease subunit Sen2           |
| UniProt Protein Name             | tRNA-splicing endonuclease subunit Sen2           |
| UniProt Gene Name                | TSEN2                                             |
| UniProt Synonym Gene Names       | SEN2; HsSen2                                      |

**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.

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