

Product datasheet

Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] ab154825

Recombinant RabMAb

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Overview

Product name	Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)]
Description	Rabbit monoclonal [EPR10684(B)] to Seryl-tRNA synthetase/SERS
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human Seryl-tRNA synthetase/SERS (N terminal). The exact sequence is proprietary.
Positive control	293T and K562 cell lysates; Human pancreas tissue and Human thyroid gland carcinoma tissue; 293T cells and K562 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR10684(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab154825 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 59 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. (Heat to 98°C, allow to cool for 10-20 minutes)
ICC/IF		1/100 - 1/250.

Target

Function Catalyzes the attachment of serine to tRNA(Ser). Is also probably able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyl-tRNA(Sec).

Pathway Aminoacyl-tRNA biosynthesis; selenocysteinyl-tRNA(Sec) biosynthesis; L-seryl-tRNA(Sec) from L-serine and tRNA(Sec): step 1/1.

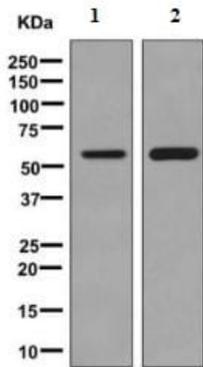
Sequence similarities Belongs to the class-II aminoacyl-tRNA synthetase family. Type-1 seryl-tRNA synthetase subfamily.

Domain Consists of two distinct domains, a catalytic core and a N-terminal extension that is involved in tRNA binding.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Cytoplasm.

Images



Western blot - Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] (ab154825)

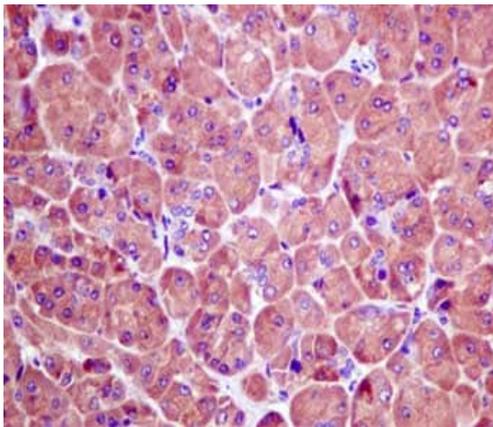
All lanes : Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] (ab154825) at 1/1000 dilution

Lane 1 : 293T cell lysate

Lane 2 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

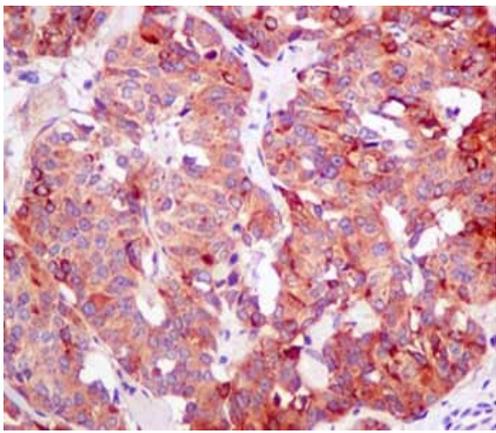
Predicted band size: 59 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] (ab154825)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling Seryl-tRNA synthetase/SERS with ab154825 at 1/50 dilution.

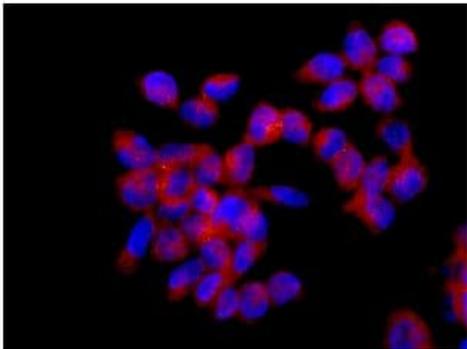
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin-embedded Human thyroid gland carcinoma tissue labeling Seryl-tRNA synthetase/SERS with ab154825 at 1/50 dilution.

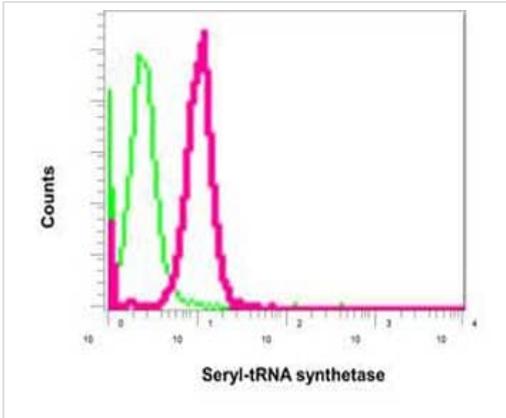
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] (ab154825)



Immunofluorescence analysis of 293T cells labeling Seryl-tRNA synthetase/SERS with ab154825 at 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] (ab154825)



Intracellular flow cytometric analysis of permeabilized K562 cells labeling Seryl-tRNA synthetase/SERS with ab154825 at 1/100 dilution (red) or a negative Rabbit IgG (green).

Flow Cytometry (Intracellular) - Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] (ab154825)

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Seryl-tRNA synthetase/SERS antibody [EPR10684(B)] (ab154825)

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