

Product datasheet

Anti-STIL/SIL antibody ab222838

1 References 3 Images

Overview

Product name	Anti-STIL/SIL antibody
Description	Rabbit polyclonal to STIL/SIL
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human STIL/SIL aa 388-637.

Sequence:

MPIHDHDSGVEDEDFSPRPIPSHPVVSQKISKIQPSVPELS
 LVLDGNFIE
 SNPLPTPLEM/VNENPPLINHLEHLKPLQPQLYDEKHSPE
 VEAGEPSLRG
 IPNQLNQDKPALLRHCKVRQPPAYKKGPNPHTRNSIKPSSH
 NGPSHDIFEK
 LQTVSAGNVQNEEYPIRPSTLNSRQSSLAPQSQPHDFVFS
 PHNSGRPMEL
 QIPTPLPSYCSTNVCRCQHHSHIQYSPLNSWQGANTVG
 SIQDVQSEAL

Database link: [Q15468](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control IHC-P: Human lung and breast cancer tissues. ICC/IF: HepG2 cells.

General notes This product was previously labelled as STIL

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is

Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituents: 50% Glycerol (glycerin, glycerine), PBS, 0.03% Proclin 300
Purity	Protein G purified
Purification notes	>95%
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab222838** 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
IHC-P		1/20 - 1/200.
ICC/IF		1/50 - 1/200.

Target

Function	Immediate-early gene. Plays an important role in embryonic development as well as in cellular growth and proliferation; its long-term silencing affects cell survival and cell cycle distribution as well as decreases CDK1 activity correlated with reduced phosphorylation of CDK1. Play a role as a positive regulator of the sonic hedgehog pathway, acting downstream of PTCH1.
Tissue specificity	Expressed in all hematopoietic tissues and cell lines. Highly expressed in a variety of tumors characterized by increased mitotic activity with highest expression in lung cancer.
Involvement in disease	Note=A chromosomal aberration involving STIL may be a cause of some T-cell acute lymphoblastic leukemias (T-ALL). A deletion at 1p32 between STIL and TAL1 genes leads to STIL/TAL1 fusion mRNA with STIL exon 1 splicing to TAL1 exon 3. As both STIL exon 1 and TAL1

exon 3 are 5'-untranslated exons, STIL/TAL1 fusion mRNA predicts a full length TAL1 protein under the control of the STIL promoter, leading to inappropriate TAL1 expression. In childhood T-cell malignancies (T-ALL), a type of defect such as STIL/TAL1 fusion is associated with a good prognosis. In cultured lymphocytes from healthy adults, STIL/TAL1 fusion mRNA may be detected after 7 days of culture.

Defects in STIL are the cause of microcephaly primary type 7 (MCPH7) [MIM:612703].

Microcephaly is defined as a head circumference more than 3 standard deviations below the age-related mean. Brain weight is markedly reduced and the cerebral cortex is disproportionately small. Despite this marked reduction in size, the gyral pattern is relatively well preserved, with no major abnormality in cortical architecture. Primary microcephaly is further defined by the absence of other syndromic features or significant neurological deficits.

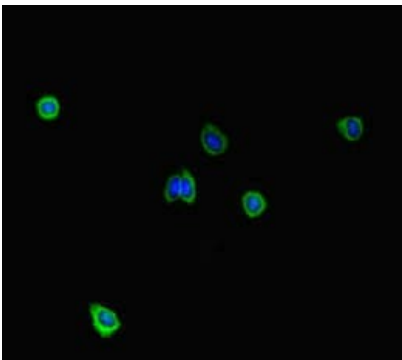
Phosphorylated following the activation of the mitotic checkpoint.

Post-translational modifications

Cellular localization

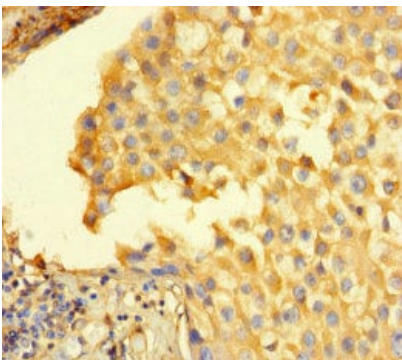
Cytoplasm > cytosol.

Images



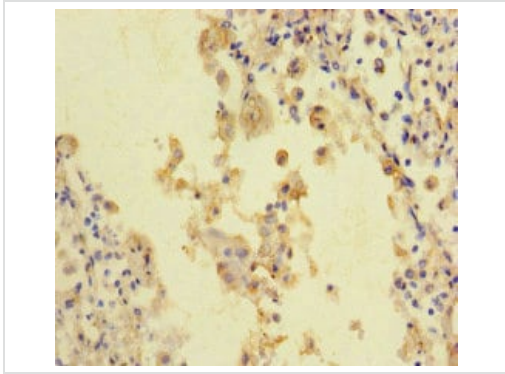
HepG2 (human liver hepatocellular carcinoma cell line) cells stained for STIL/SIL (green) using ab222838 at 1/100 dilution in ICC/IF. Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L) was used as secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-STIL/SIL antibody (ab222838)



Paraffin-embedded human breast cancer tissue stained for STIL/SIL using ab222838 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STIL/SIL antibody (ab222838)



Paraffin-embedded human lung cancer tissue stained for STIL/SIL using ab222838 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STIL/SIL antibody (ab222838)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors