


Anti-STIL/SIL antibody ab89314

[26 References](#) [3 Images](#)

Overview

Product name	Anti-STIL/SIL antibody
Description	Rabbit polyclonal to STIL/SIL
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Rabbit, Horse, Guinea pig, Cow, Pig, Chimpanzee, Gorilla, Opossum, Orangutan, Elephant 
Immunogen	Synthetic peptide corresponding to Human STIL/SIL aa 1237-1287. Database link: NP_003026.2
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab89314 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
ICC/IF		Use at an assay dependent concentration.
WB		1/2000 - 1/10000. Predicted molecular weight: 143 kDa.
IP		Use at 2-5 µg/mg of lysate.

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.

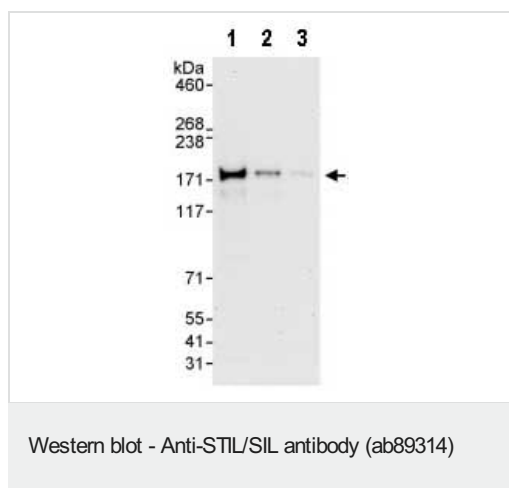
Post-translational modifications

Phosphorylated following the activation of the mitotic checkpoint.

Cellular localization

Cytoplasm > cytosol.

Images



All lanes : Anti-STIL/SIL antibody (ab89314) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

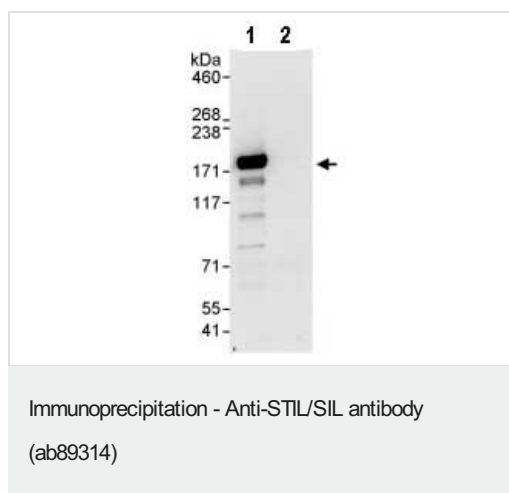
Lane 3 : HeLa whole cell lysate at 5 µg

Developed using the ECL technique.

Predicted band size: 143 kDa

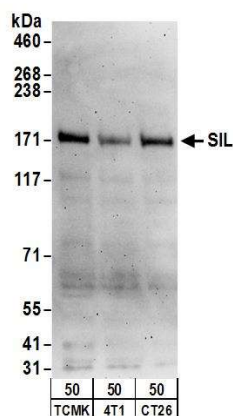
Observed band size: 175 kDa

Exposure time: 30 seconds



Detection of STIL/SIL in Immunoprecipitates of HeLa whole cell lysates (1 mg for IP, 20% of IP loaded) using ab89314 at 3 µg/mg lysate for IP (Lane 1) and at 1 µg/ml for subsequent Western blot detection. Lane 2 represents control IgG IP.

Detection: Chemiluminescence with exposure time of 30 seconds.



Western blot - Anti-STIL/SIL antibody (ab89314)

All lanes : Anti-STIL/SIL antibody (ab89314) at 0.1 µg/ml

Lane 1 : TCMK-1 cell lysate

Lane 2 : 4T1 cell lysate

Lane 3 : CT26.WT cell lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 143 kDa

Exposure time: 3 minutes

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