Anti-STIL/SIL antibody ab222838

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:

```
MPIHDHDSGVEDEDFSRPIPSHPVSQKISKIQPSVE
LVLDGNFIE
SNPLPTPLEMVNNENPPLINHEHLKPLQPQLYDEKHSPE
VEAGEPSLRG
IPNQLNOQDQPALLRHCKVRQPPAYKKGNPHTNSKIPSSH
NGPSHDFE
LQTVSAGNVQNEYPIRPSTLNSRQSSLAPQSQPHTDFVFS
PHNSGRPMEL
QIPPTPLPSYCTNVRCQCQHHSHIQYSPLNSWQGANTVG
SIQDVQSEAL
```

Database link: [Q15468](http://example.com)

Positive control

General notes
This product was previously labelled as STIL.

Properties

Form
Liquid

Storage instructions

Storage buffer
pH: 7.40
Constituents: 50% Glycerol, PBS, 0.03% Proclin 300

Purity
Protein G purified
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 slicing 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.
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.

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

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

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