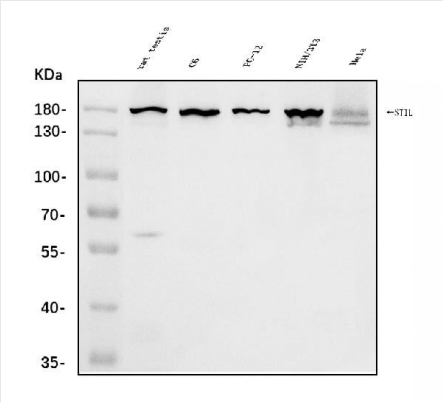
STIL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

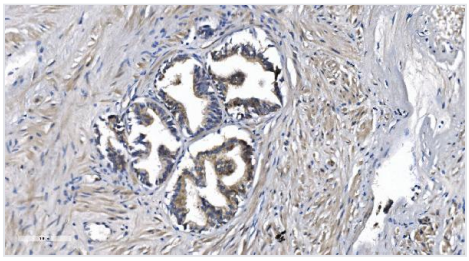
Product Name	STIL/SIL, Polyclonal Antibody
Full Product Name	Anti-STIL/SIL Antibody
Product Gene Name	anti-STIL antibody
Product Synonym Names	STIL; SIL; SCL-interrupting locus protein; TAL-1-interrupting locus protein; STIL centriolar assembly protein
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na_2HPO_4.
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	Store at -20°C for one year upon receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a long term. Avoid repeated freezing and thawing.
OMIM	gene 612703
3D Structure	ModBase 3D Structure for Q15468
Immunogen	E Coli-derived human STIL/SIL recombinant protein (Position: N13-F1287).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (please inquire) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (please inquire) for IHC(P).
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-STIL antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Flow Cytometry (FC), Direct ELISA (EIA)
Application Notes for anti-STIL antibody	WB: Concentration: 0.25-0.5ug/ml ; Tested Species: Human, Mouse, Rat IHC-P: Concentration: 2-5ug/ml; Tested Species: Human FC: Concentration: 1-3ug/1x106cells; Tested Species: Human Direct ELISA: Concentration: 0.1-0.5ug/ml; Tested Species: Human Tested Species: In-house tested species with positive results. Optimal dilutions should be determined by the end user.
Related Product Information for anti-STIL antibody	SCL-interrupting locus protein is a protein that in humans is encoded by the STIL gene. This gene encodes a cytoplasmic protein implicated in regulation of the mitotic spindle checkpoint, a regulatory pathway that monitors chromosome segregation during cell division to ensure the proper distribution of chromosomes to daughter cells. The protein is phosphorylated in mitosis and in response to activation of the spindle checkpoint, and disappears when cells transition to G1 phase. It interacts with a mitotic regulator, and its expression is required to efficiently activate the spindle checkpoint. It is proposed to regulate Cdc2 kinase activity during spindle checkpoint arrest. Chromosomal deletions that fuse this gene and the adjacent locus commonly occur in T cell leukemias, and are thought to arise through illegitimate V-(D)-J recombination events. Multiple transcript variants encoding different isoforms have been found for this gene.

Product References and Citations for anti-STIL antibody	1. Aplan, P. D., Jones, C. A., Chervinsky, D. S., Zhao, X., Ellsworth, M., Wu, C., McGuire, E. A., Gross, K. W. An scl gene product lacking the transactivation domain induces bony abnormalities and cooperates with LMO1 to generate T-cell malignancies in transgenic mice. EMBO J. 16: 2408-2419, 1997. 2. Aplan, P. D., Lombardi, D. P., Ginsberg, A. M., Cossman, J., Bertness, V. L., Kirsch, I. L. Disruption of the human SCL locus by 'illegitimate' V-(D)-J recombinase activity. Science 250: 1426-1429, 1990. 3. Aplan, P. D., Lombardi, D. P., Reaman, G. H., Sather, H. N., Hammond, G. D., Kirsch, I. R. Involvement of the putative hematopoietic transcription factor SCL in T-cell acute lymphoblastic leukemia. Blood 79: 1327-1333, 1992.
Other Notes	Small volumes of anti-STIL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for STIL purchase	MBS1753683 is an antibody targeting STIL. Also known as Anti-STIL/SIL Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



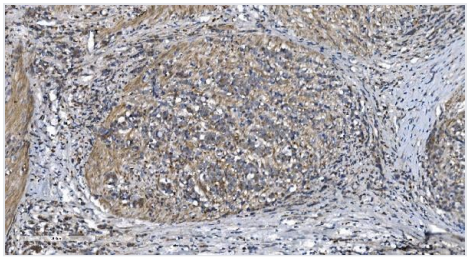
Western Blot (WB) of anti-STIL antibody

Figure 1. Western blot analysis of STIL/SIL using anti-STIL/SIL antibody (MBS1753683).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: rat testis tissue lysatesLane 2: rat C6 whole cell lysatesLane 3: rat PC-12 whole cell lysatesLane 4: mouse NIH/3T3 whole cell lysatesLane 5: human Hela whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-STIL/SIL antigen affinity purified polyclonal antibody (Catalog # MBS1753683) at 0. 5 ?g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (please inquire) with Tanon 5200 system. A specific band was detected for STIL/SIL at approximately 170KD. The expected band size for STIL/SIL is at 170KD.



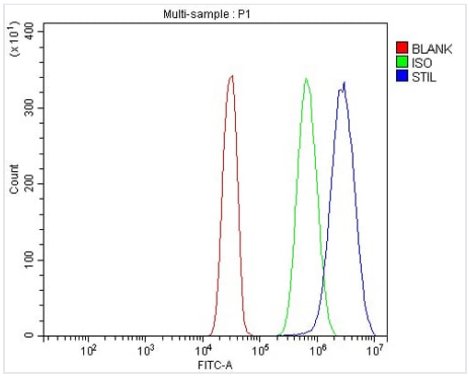
Immunohistochemistry (IHC) of anti-STIL antibody

Figure 3. IHC analysis of STIL/SIL using anti-STIL/SIL antibody (MBS1753683).STIL/SIL was detected in paraffin-embedded section of human prostate cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-STIL/SIL Antibody (MBS1753683) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # please inquire) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-STIL antibody

Figure 2. IHC analysis of STIL/SIL using anti-STIL/SIL antibody (MBS1753683).STIL/SIL was detected in paraffin-embedded section of human gallbladder adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-STIL/SIL Antibody (MBS1753683) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # please inquire) with DAB as the chromogen.



Flow Cytometry (FC) of anti-STIL antibody

Figure 4. Flow Cytometry analysis of SiHa cells using anti-STIL/SIL antibody (MBS1753683).Overlay histogram showing SiHa cells stained with MBS1753683 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-STIL/SIL Antibody (MBS1753683, 1?g/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10?g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1?g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STIL. It may not necessarily be applicable to this product.

NCBI GI #	115298663
NCBI GeneID	6491
NCBI Accession #	NP_001041631.1
UniProt Primary Accession #	Q15468
UniProt Secondary Accession #	Q5T0C5; Q68CN9
UniProt Related Accession #	Q15468
GenBank Nucleotide #	NM_001048166.1
NCBI Official Full Name	SCL-interrupting locus protein isoform 1
NCBI Official Synonym Full Names	SCL/TAL1 interrupting locus
NCBI Official Symbol	STIL
NCBI Official Synonym Symbols	SIL; MCPH7
UniProt Protein Name	SCL-interrupting locus protein
UniProt Synonym Protein Names	TAL-1-interrupting locus protein
Protein Family	Protein stand still
UniProt Gene Name	STIL
UniProt Synonym Gene Names	SIL
UniProt Entry Name	STIL_HUMAN
NCBI Protein Information	SCL-interrupting locus protein; TAL-1-interrupting locus protein
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