SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-STING1 antibody

Catalog Number: SLM-60326R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	H9B4
Target:	STING1
Purification:	Affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 Flow-Cyt=1:50-100（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Subcellular Location:	cytoplasmic The cell membrane
Background:	This gene encodes a five transmembrane protein that functions as a major regulator of the innate immune response to viral and bacterial infections. The encoded protein is a pattern recognition receptor that detects cytosolic nucleic acids and transmits signals that activate type I interferon responses. The encoded protein has also been shown to play a role in apoptotic signaling by associating with type II major histocompatibility complex. Mutations in this gene are the cause of infantile-onset STING-associated vasculopathy. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014] **Database links:** **Entrez Gene:** 340061 Human

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	SwissProt: Q86WV6 Human STING is composed of 379 amino acids, has several transmembrane domains, and is expressed in various endothelial cells, epithelial cells, and hematopoietic stem cells. STING participates in and promotes DNA-mediated innate immune responses, that is, non-CpG double-stranded DNA from viruses and bacteria binds to cGAS protein and is catalyzed into the second messenger cGAMP; then dimerized STING binds to cGAMP, undergoes a conformational change, and further enters the cytoplasm via autophagosomes through the endoplasmic reticulum and Golgi apparatus, during which it is ubiquitinated and recruits TBK1 protein, then is phosphorylated, and subsequently binds to IRF3; then IRF3 is phosphorylated and enters the nucleus, inducing the expression of IFNs, cell factors, T cell recruitment factors, etc., thereby enhancing the body's immune capacity and killing bacteria, viruses, and other pathogens to a greater extent.

[VALIDATION IMAGES]

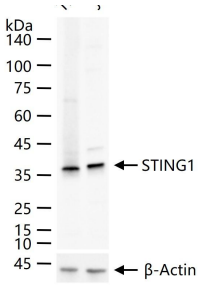


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with STING1 monoclonal antibody, unconjugated (SLM-60326R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

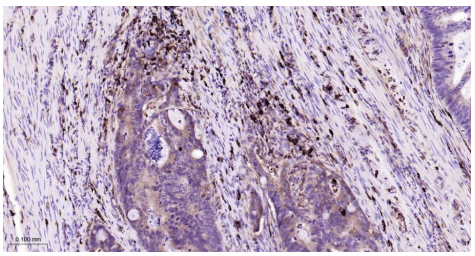


Figure 2. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STING1 Monoclonal Antibody, Unconjugated (SLM-60326R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

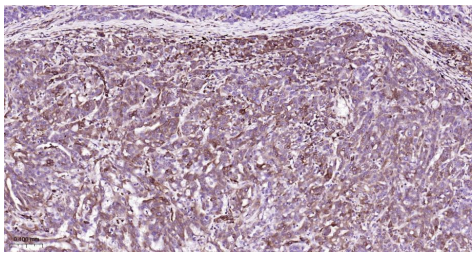


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Ovarian Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STING1 Monoclonal Antibody, Unconjugated (SLM-60326R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

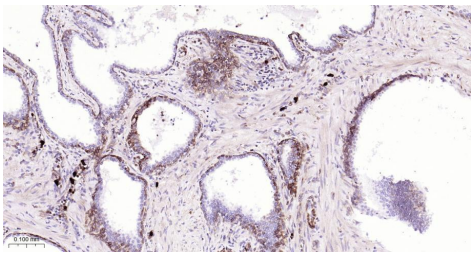


Figure 4. Paraformaldehyde-fixed, paraffin embedded Human Prostate Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STING1 Monoclonal Antibody, Unconjugated (SLM-60326R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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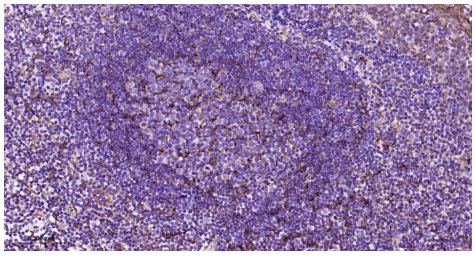


Figure 5. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STING1 Monoclonal Antibody, Unconjugated (SLM-60326R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

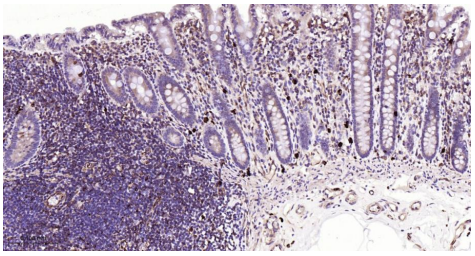


Figure 6. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STING1 Monoclonal Antibody, Unconjugated (SLM-60326R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

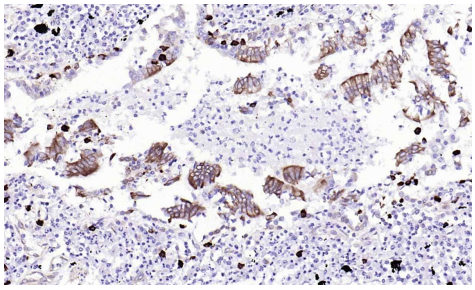


Figure 7. Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STING1) Monoclonal Antibody, Unconjugated (SLM-60326R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023)instructionsand DAB staining

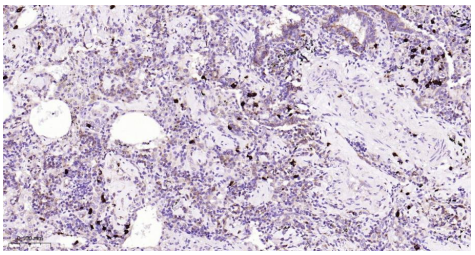


Figure 8. Paraformaldehyde-fixed, paraffin embedded Human lung squamous cell carcinoma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STING1 Monoclonal Antibody, Unconjugated (SLM-60326R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

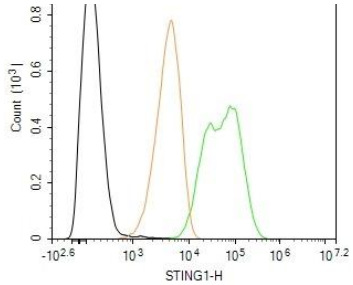


Figure 9. The THP-1 (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-STING1 antibody (SLM-60326R,1:100); Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

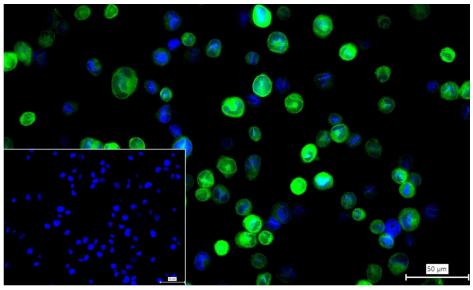


Figure 10. 4% Paraformaldehyde-fixed THP-1 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (STING1) monoclonal Antibody, unconjugated (SLM-60326R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, SL60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control

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