

## Basic Information

Product Name	Anti-STS Antibody	
Gene Name	STS	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human Steroid sulfatase recombinant protein (Position: K297-E396).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	65 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000

## Storage

12 months from date of receipt, -20°C as supplied.

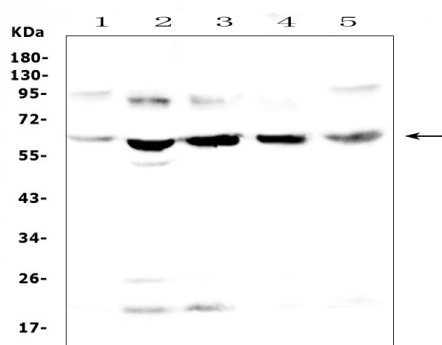
## Background Information

Steroid sulfatase (STS), or steryl-sulfatase, formerly known as arylsulfatase C, is a sulfatase enzyme involved in the metabolism of steroids. It is encoded by the STS gene. This gene encodes a multi-pass membrane protein that is localized to the endoplasmic reticulum. It belongs to the sulfatase family and hydrolyzes several 3-beta-hydroxysteroid sulfates, which serve as metabolic precursors for estrogens, androgens, and cholesterol. Mutations in this gene are associated with X-linked ichthyosis (XLI). Alternatively spliced transcript variants resulting from the use of different promoters have been described for this gene.

## Reference

Anti-STS Antibody被引用在1文献中。

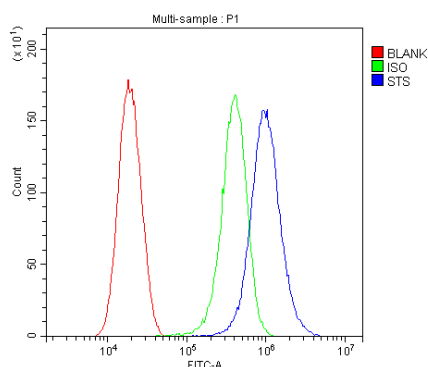
## Selected Validation Data



Western blot analysis of STS using anti-STS antibody (A01198-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,  
Lane 2: human placenta tissue lysates,  
Lane 3: human MCF-7 whole cell lysates,  
Lane 4: human HepG2 whole cell lysates,  
Lane 5: human PANC-1 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-STS antigen affinity purified polyclonal antibody (A01198-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for STS at approximately 65 kDa. The expected band size for STS is at 65 kDa.



Flow Cytometry analysis of Hela cells using anti-STS antibody (A01198-1).

Overlay histogram showing Hela cells stained with A01198-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-STS Antibody (A01198-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.