

For Research Use Only

# STS Polyclonal antibody

Catalog Number: 17870-1-AP

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 17870-1-AP	<b>GenBank Accession Number:</b> BC075030	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 450 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 412	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> steroid sulfatase (microsomal), isozyme S	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 583 aa, 65 kDa	
<b>Immunogen Catalog Number:</b> AG12353	<b>Observed MW:</b> 63-65 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** MCF7 cells, human placenta tissue

**IHC:** human placenta tissue, human hystero myoma tissue, human kidney tissue, human lung tissue, human ovary tissue, human skin tissue

**IF:** HeLa cells,

## Background Information

STS (Steroid sulfatase) is also named as ASC (arylsulfatase C), ARSC1 and belongs to the sulfatase family. It is expressed in human liver and is responsible for the hydrolysis of many estrogen and hydroxysteroid sulfates, including dehydroepiandrosterone (DHEA)-sulfate and  $\beta$ -estradiol(E2)-3-sulfate (PMID:19589875). This enzyme has also been documented to occur in many other tissues, including skin, lung, ovary, and adrenal gland. The estimated molecular mass of expressed human STS is 63-85 kDa which may represent different levels of glycosylation in the different tissues, as STS is known to be a glycoprotein and the full length protein has a signal peptide with 21 amino acids (PMID:17604157).

## Notable Publications

Author	Pubmed ID	Journal	Application
Cameron M Armstrong	32928794	Clin Cancer Res	WB
Jiansha Li	26478095	Sci Rep	WB
Barbara Licznarska	27854074	Mol Cell Biochem	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

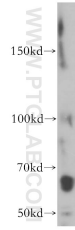
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

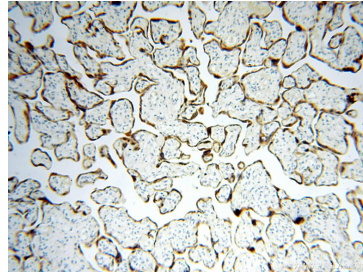
E: proteintech@ptglab.com  
W: ptglab.com

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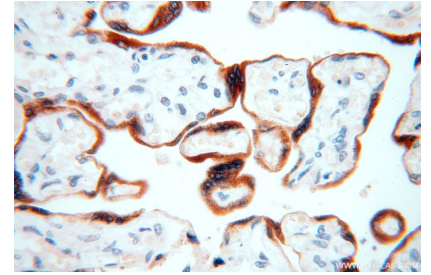
## Selected Validation Data



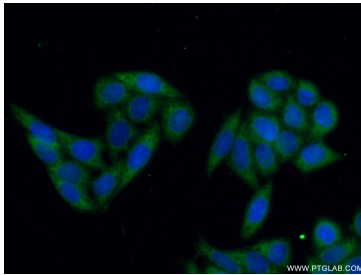
MCF7 cells were subjected to SDS PAGE followed by western blot with 17870-1-AP (STS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta using 17870-1-AP (STS antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta using 17870-1-AP (STS antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 17870-1-AP (STS antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).