For Research Use Only

STS Polyclonal antibody

Catalog Number:17870-1-AP Featured Product 5 Publications

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Basic Information

Catalog Number:
17870-1-AP

Size:
150ul , Concentration: 450 ug/ml by Nanodrop and 313 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12353

GenBank Accession Number:
BC075030

GeneID (NCBI):
412

UNIPROT ID:
P08842

Full Name:
steroid sulfatase (microsomal), isozyme S

Calculated MW:
583 aa, 65 kDa

Observed MW:
63-65 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

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 hysteromyoma tissue, human kidney tissue, human lung tissue, human ovary tissue, human skin tissue

IF/ICC : 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 β-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 Licznerska	27854074	Mol Cell Biochem	WB

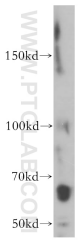
Storage

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

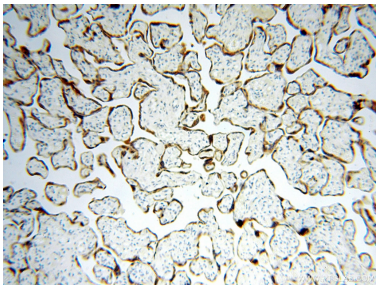
*** 20ul sizes contain 0.1% BSA

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

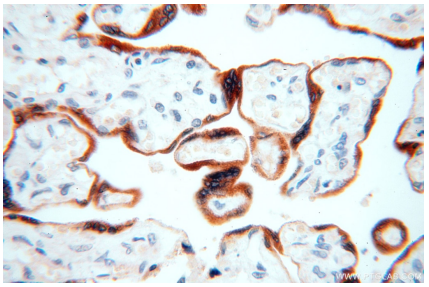
Selected Validation Data



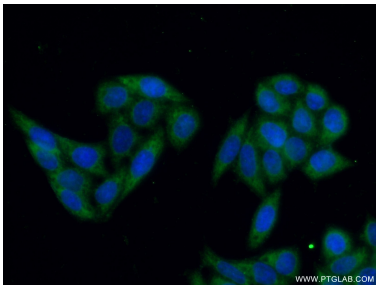
MCF7 cells were subjected to SDS PAGE followed by western blot with 17870-1-AP (STS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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).