

Estrogen Sulfotransferase Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10643**Specification**

Estrogen Sulfotransferase Antibody - Product Information

Application	WB
Primary Accession	P49888
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35126

Estrogen Sulfotransferase Antibody - Additional Information**Gene ID** 6783**Application & Usage**

Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Other applications have not been determined. Detects 31 kDa Estrogen Sulfotransferase (EST) of human and rat origins.

Other Names

EST, EST-1 , MGC34459 , STE , SULT1E1

Target/Specificity

Estrogen Sulfotransferase

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti- Estrogen Sulfotransferase polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Estrogen Sulfotransferase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Estrogen Sulfotransferase Antibody - Protein Information

Name SULT1E1

Synonyms STE

Function

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of estradiol and estrone (PubMed:7779757, PubMed:11884392, PubMed:11006110). Is a key enzyme in estrogen homeostasis, the sulfation of estrogens leads to their inactivation. Also sulfates dehydroepiandrosterone (DHEA), pregnenolone, (24S)-hydroxycholesterol and xenobiotic compounds like ethinylestradiol, equalenin, diethyl stilbesterol and 1-naphthol at significantly lower efficiency (PubMed:11006110, PubMed:19589875). Does not sulfonate cortisol, testosterone and dopamine (PubMed:7779757, PubMed:11006110). May play a role in gut microbiota-host metabolic interaction. O-sulfonates 4-ethylphenol (4-EP), a dietary tyrosine-derived metabolite produced by gut bacteria. The product 4-EPS crosses the blood-brain barrier and may negatively regulate oligodendrocyte maturation and myelination, affecting the functional connectivity of different brain regions associated with the limbic system.

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Liver, intestine and at lower level in the kidney.

Estrogen Sulfotransferase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Estrogen Sulfotransferase Antibody - Images

Estrogen Sulfotransferase Antibody - Background

Mammalian EST sulfurylates the hydroxyl group of estrogenic steroids by transferring the sulfate from a cosubstrate adenosine 3'-phosphate-5'-phosphosulfate. Sulfurylated steroids do not bind to the estrogen receptor with high affinity and, therefore, are hormonally inactive. EST plays an

important role in controlling the intracellular level of the receptor-active estrogens.