

SULT1A1 Rabbit pAb

CatalogNo: YN6045

| Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat

Applications

- WB

MW

- 32kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized peptide derived from human SULT1A1

Specificity

This antibody detects endogenous levels of SULT1A1 at Human,Rat

| Target Information

Gene name

SULT1A1 STP STP1 OK/SW-cl.88

Protein Name	Sulfotransferase 1A1 (ST1A1) (Aryl sulfotransferase 1) (HAST1/HAST2) (Phenol sulfotransferase 1) (Phenol-sulfating phenol sulfotransferase 1) (P-PST 1) (ST1A3) (Thermostable phenol sulfotransferase) (Ts-PST)		
	Organism	Gene ID	UniProt ID
	Human	6817;	P50225;
	Mouse		P52840;
	Rat	83783;	P17988;
Cellular Localization	Cytoplasm .		
Tissue specificity	Liver, lung, adrenal, brain, platelets and skin.		
Function	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of a wide variety of acceptor molecules bearing a hydroxyl or an amine groupe. Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Displays broad substrate specificity for small phenolic compounds. Plays an important role in the sulfonation of endogenous molecules such as steroid hormones and 3,3'-diiodothyronin . Mediates the sulfate conjugation of a variety of xenobiotics, including the drugs acetaminophen and minoxidil (By similarity). Mediates also the metabolic activation of carcinogenic N-hydroxyarylamines leading to highly reactive intermediates capable of forming DNA adducts, potentially resulting in mutagenesis . 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.		

| Validation Data

| Contact information

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Please scan the QR code to access additional product information:

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