

# Human UDP-glucuronic acid decarboxylase 1 (UXS1) ELISA Kit



Catalog No: #EK5918

Orders: order@signalwayantibody.com

Package Size: #EK5918-1 48T #EK5918-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human UDP-glucuronic acid decarboxylase 1 (UXS1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ23591; SDR6E1; UGD; short chain dehydrogenase/reductase family 6E; member 12
Accession No.	Q8NBZ7
Uniprot	Q8NBZ7
GeneID	80146;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.116 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate UXS1 in samples. An antibody specific for UXS1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyUXS1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UXS1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of UXS1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**UDP-glucuronate decarboxylase (UGD; EC 4.1.1.35) catalyzes the formation of UDP-xylose from UDP-glucuronate. UDP-xylose is then used to initiate glycosaminoglycan biosynthesis on the core protein of proteoglycans.

The topology of the deduced 420-amino acid protein was consistent with a type II transmembrane protein. Northern blot analysis of rat tissues detected a single UGD transcript with highest levels in heart, brain, and testes. Substantial levels were also detected in kidney, liver and lung, and lower levels in spleen and skeletal muscle. Western blot analysis demonstrated highest levels of the protein in kidney, liver, and brain, with negligible staining in heart, spleen, skeletal muscle, lung, and testes. Subcellular studies and histochemistry localized the protein to the perinuclear Golgi.

---

Note: This product is for in vitro research use only