

## Human Serpin H1 (SERPINH1) ELISA Kit

Catalog No: #EK7367



Package Size: #EK7367-1 48T #EK7367-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Human Serpin H1 (SERPINH1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AsTP3; CBP1; CBP2; HSP47; PIG14; PPROM; RA-A47; SERPINH2; gp46; arsenic-transactivated protein 3 colligin-1 colligin-2 proliferation-inducing gene 14 rheumatoid arthritis antigen A-47 serine (or cys
Accession No.	Q2KJH6
Uniprot	Q2KJH6
GenID	510850;
Storage	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.  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).

## Application Details

Detect Range:125.00-8000 pg/mL

Sensitivity:50 pg/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 SERPINH1 in samples. An antibody specific for SERPINH1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySERPINH1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINH1 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 SERPINH1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Heat shock protein 47 is a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein localizes to the endoplasmic reticulum lumen and binds collagen; thus it is thought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis. Colligins are characterized by an amino acid structure that includes an N-terminal hydrophobic signal sequence and 2 putative N-linked oligosaccharide attachment sites (Clarke et al., 1991). Colligins also have a C-terminal RDEL sequence that acts as an endoplasmic reticulum (ER) retention sequence. Other features permit the colligin-binding protein of ER to be classified as a serpin (serine-arginine protease inhibitor).

---

Note: This product is for in vitro research use only