

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB06720-T - Goat Anti-PAI1 / SERPINE1 Antibody - Trial

Size: 20µg specific antibody in 40µl



### Target Protein

**Principal Names:** SERPINE1, PAI1, PAI, PAI-1, PLANH1, serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1, plasminogen activator inhibitor, type I, serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1, plasminogen activator inhibitor-1, endothelial plasminogen activator inhibitor, plasminogen activator inhibitor, type I, plasminogen activator inhibitor-1, serpin E1, SERPINE1

**Official Symbol:** SERPINE1

**Accession Number(s):** NP\_000593.1

**Human GeneID(s):** [5054](#)

### Immunogen

Peptide with sequence C-GFKIDDKGMALRH, from the internal region of the protein sequence according to NP\_000593.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:64000.

**Western blot:** Approx 48kDa band observed in Human Liver and HeLa lysates, while approx. 45kDa observed in lysates of cell lines A549 and HepG2 (calculated MW of 45.1kDa according to NP\_000593.1). The observed molecular weights correspond to earlier findings with different antibodies from other commercial sources. Recommended concentration: 0.1-0.3µg/ml.

**IHC:** In paraffin embedded Human Placenta shows strong staining of cytotrophoblasts. Recommended concentration: 4-6µg/ml. A customer successfully used this product on Human Breast cancer.

**Enzyme immunoassay:** Sandwich-type ELISA with increasing amount of recombinant PAI1 captured by a rabbit antibody. Recommended reporter concentration: 1.5-3µg/ml

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Dog

### Specific Reference

**This antibody has been successfully used in the following paper:**

Kozaczuk A, Selmi A, Bednarek R.

Bacterial expression, purification and angiogenesis-promoting activity of human thymosin β4.

Protein Expr Purif. 2013 Aug;90(2):142-52.

PMID: 23769831

EB06720 (0.3µg/ml) staining of Human Liver lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour.  
Detected by chemiluminescence.

EB06720 (0.1µg/ml) staining of A549 (A), HepG2 (B) and HeLa (C) lysates (35µg protein in RIPA buffer).  
Primary incubation was 1 hour. Detected by chemiluminescence.

EB06720 (4µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with Tris/EDTA  
buffer pH 9, HRP-staining.

EB6720 (1.5ug/ml) as the reporter with EB002011 as the capture rabbit antibody (2.5ug/ml).