

## ARG82366 Human ITIH4 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG82366-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82366-002 | Standard                              | 2 X 10 ng/vial       | 4°C   |
| ARG82366-003 | Standard/Sample diluent               | 30 ml (Ready to use) | 4°C   |
| ARG82366-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl)      | 4°C   |
| ARG82366-005 | Antibody diluent buffer               | 12 ml (Ready to use) | 4°C   |
| ARG82366-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 µl)      | 4°C   |
| ARG82366-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG82366-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG82366-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG82366-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG82366-011 | Plate sealer                          | 4 strips             | Room temperature  |

### Summary

|                     |  |
|---------------------|--|
| Product Description | ARG82366 Human ITIH4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ITIH4 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants. |
| Tested Reactivity   | Hu   |
| Tested Application  | ELISA  |
| Target Name         | ITIH4  |
| Conjugation         | HRP  |
| Conjugation Note    | Substrate: TMB and read at 450 nm.   |
| Sensitivity         | 15.6 pg/ml   |
| Sample Type         | Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.  |
| Standard Range      | 31.2 - 2000 pg/ml  |
| Sample Volume       | 100 µl   |
| Precision           | Intra-Assay CV: 4.8%<br>Inter-Assay CV: 7.0%   |

**Alternate Names** PK-120; PK120; Inter-alpha-inhibitor heavy chain 4; Gp120; H4P; GP120; Inter-alpha-trypsin inhibitor family heavy chain-related protein; Inter-alpha-trypsin inhibitor heavy chain H4; IHRP; ITIHL1; Plasma kallikrein sensitive glycoprotein 120; ITI heavy chain H4; ITI-HC4

## Application Instructions

---

**Assay Time** ~ 5 hours

## Properties

---

**Form** 96 well

**Storage instruction** Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

---

**Gene Symbol** ITIH4

**Gene Full Name** inter-alpha-trypsin inhibitor heavy chain family, member 4

**Background** The protein encoded by this gene is secreted into the blood, where it is cleaved by plasma kallikrein into two smaller forms. Expression of this gene has been detected only in liver, and it seems to be upregulated during surgical trauma. This gene is part of a cluster of similar genes on chromosome 3. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

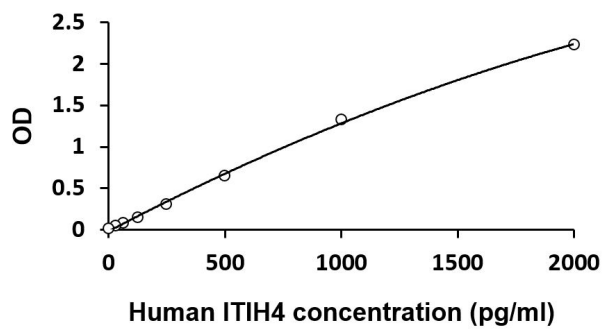
**Function** Type II acute-phase protein (APP) involved in inflammatory responses to trauma. May also play a role in liver development or regeneration. [UniProt]

**Highlight** Related products:  
[ITIHL4 antibodies](#); [ITIHL4 ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

**PTM** Cleaved by plasma kallikrein to yield 100 kDa and 35 kDa fragments, and the resulting 100 kDa fragment is further converted to a 70 kDa fragment.

N- and O-glycosylated. In urine, O-linked glycosylation on threonine residues in the region from Thr-719 to Thr-725 consists of core 1 or possibly core 8 glycans. Mainly Hex(HexNAc)(2), but also some Hex(3)(HexNAc)(3). N-glycosylated but not O-glycosylated in plasma. [UniProt]

**Cellular Localization** Secreted. [UniProt]



ARG82366 Human ITIH4 ELISA Kit standard curve image

ARG82366 Human ITIH4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.