

Product datasheet for **AP31103PU-N**

ITIH4 (890-903) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	Peptide ELISA: Detection Limit: 1/16000. Western Blot: 0.03-0.1 µg/ml. In Human Placenta lysates, a band of ~150kDa is detected corresponding to the glycosylated form. Immunohistochemistry on Paraffin Sections.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the C Terminus of the protein sequence according to NP_002209.2 and NP_001159921.1.
Specificity:	This antibody is expected to recognize both reported isoforms (NP_002209.2, NP_001159921.1).
Formulation:	Tris saline, pH~7.3 with 0.02% Sodium Azide and 0.5% BSA State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by Antigen Affinity Chromatography using the immunizing peptide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	inter-alpha-trypsin inhibitor heavy chain family member 4
Database Link:	Entrez Gene 3700 Human Q14624



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Background:

The inter- α -trypsin inhibitor (ITI, Ial) family, a typical and classical example for protein-glycosaminoglycanprotein (PGP) complexes, occurs constitutively in plasma at relatively high concentrations and is a result of alternate combinations of three kinds of heavy chains with a common light chain, the bikunin proteoglycan. Bikunin has two proteinase inhibitor domains and belongs to the Kunitz-type protease inhibitor family; it displays an inhibitory activity against trypsin, leukocyte elastase and plasmin. The heavy chains do not have any protease inhibitory properties but have the capacity to interact in vitro and in vivo with hyaluronic acid and this binding promotes the stability of the extra-cellular matrix. The ITI protein family is suspected of playing a key role in the extra-cellular matrix biology.

Synonyms:

ITI heavy chain H4, IHRP, ITIHL1, PK120, ITI-HC4, Gp120

Note:

Calculated Molecular Weight: 103kDa (NP_002209.2).

Product images:


ITIH4 antibody staining of Human Placenta lysate at 0.03 ug/ml (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.