

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human HAI-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human HAI-1 and recombinant mouse HAI-2B is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human HAI-2A Ala28-Lys197 Accession # O43291
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human HAI-2A (Catalog # 1106-PI)
<b>Immunoprecipitation</b>	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human HAI-2A (Catalog # 1106-PI), see our available <a href="#">Western blot detection antibodies</a>

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### BACKGROUND

Two alternatively spliced forms of HAI-2 have been found in human tissues (1). HAI-2A, the full-length molecule and also known as placental bikunin, is a major form expressed in human tissues. Encoded by the SPINT2 gene, HAI-2A consists of two Kunitz domains, and a C-terminal transmembrane domain (1-5). Both Kunitz domains can function as inhibitors independent of each other. In addition to HGF activator and trypsin, HAI-2A strongly inhibits plasmin, tissue and plasma kallikreins, and factor XIa. In comparison, HAI-2A is a weaker inhibitor of factor VIIa-tissue factor, factors IXa, Xa, and XIIa. Recombinant HAI-2A prolonged the clotting time in an activated partial thromboplastin time assay.

#### References:

1. Kataoka, H. *et al.* (2002) *Biochem. Biophys. Res. Comm.* **290**:1096.
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3. Marlor, C.W. *et al.* (1997) *J. Biol. Chem.* **272**:12202.
4. Muller-Pillasch, F. *et al.* (1998) *Biochim. Biophys. Acta* **1395**:88.
5. Delaria, K.A. *et al.* (1997) *J. Biol. Chem.* **272**:12209.