

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human HAI-2A Ala28-Lys197 Accession # O43291
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

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

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

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.
2. Kawaguchi, T. *et al.* (1997) *J. Biol. Chem.* **272**:27558.
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.