

Human HAI-2 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1106

DESCRIPTION			
Species Reactivity	Human		
Specificity Detects human HAI-2 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity wide HAI-2B and recombinant human HAI-1 is observed.			
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human HAI-2A (R&D Systems, Catalog # 1106-PI) Ala28-Lys197 Accession # O43291		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. 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-2
Human HAI-2 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μg/mL	Human HAI-2 Ectodomain Antibody (Catalog # MAB1106)
ELISA Detection	0.1-0.4 µg/mL	Human HAI-2 Biotinylated Antibody (Catalog # BAF1106)
Standard		Recombinant Human HAI-2A (Catalog # 1106-PI)

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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.		

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 trysin, 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.

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.

