Mouse HAI-1 Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 199732

Catalog Number: FAB1141G

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse HAI-1 in Western blots and direct ELISAs. In Western blots, no cross-reactivity with recombinant mouse (rm) HAI-2B or rmHAI-2A is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 199732
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse HAI-1 Glu30-Glu443 Accession # Q9R097
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Hepatocyte growth factor activator inhibitor-1 (HAI-1) encoded by the Spint1 gene is a Kunitz-type serine protease inhibitor, identified as a strong inhibitor of HGF activator (HGFA) and matripase (1). The membrane-anchored HAI-1 consists of two Kunitz domains, a LDL-receptor-like domain, and a C-terminal transmembrane domain (2). Two soluble forms are generated by ectodomain shedding, one with a single Kunitz domain and the other with two Kunitz domains. HAI-1 is not only an inhibitor but also a specific receptor of active HGFA, acting as a reservoir of this enzyme on the cell surface (3). The shedding of HAI-1 and HGFA/HAI-1 complex is enhanced by treatment with phorbol 12-myristate, 13-acetate or IL-1β. The regulated shedding is completely inhibited by a synthetic zinc metalloprotease inhibitor (3).

PRODUCT SPECIFIC NOTICES

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