Anti-Human HAI-1 (#3X28)

20150130ML

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**101-M445**
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of HAI-1 extracellular domain.

Target Background

Synonyms (Target):	SPINT1; HAI; HAI1; MANSC2

HAI1 is a Kunitz-type serine protease inhibitor, identified as a strong inhibitor of HGF activator (HGFA) and matriptase. The membrane anchored HAI1 consists of two Kunitz domains, a LDL receptorlike domain, and a C-terminal transmembrane domain. Two soluble forms are generated by ectodomain shedding, one with a single Kunitz domain and the other with two Kunitz domains. HAI1 is not only an inhibitor but also a specific receptor of active HGFA, acting as a reservoir of this enzyme on the cell surface . The shedding of HAI1 and HGFA/HAI1 complex is enhanced by treatment with phorbol 12-myristate 13-acetate or IL1β. The regulated shedding is completely inhibited by a synthetic zinc metalloprotease inhibitor.

Database References Target

Protein RefSeq:	NP_857593.1
Uniprot ID:	O43278
mRNA RefSeq:	NM_181642.2

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#3X28)
Isotype	IgG1
Purification	Protein G chromatography
Antigen	recombinant human HAI-1 EC domain
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect human HAI-1.

AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:

WB, N

Recommended usage:

Western Blot: 1:500 - 1:1000

Neutralization of HAI-1 bioactivity: Yes

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!