Mouse Pro-HGF Activator Antibody

Monoclonal Rat IgG_{2A} Clone # 198811

Catalog Number: MAB1715

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Pro-HGF Activator in Western blots. In Western blots, only the HGFA precursor is recognized. In Western blots, no cross-reactivity with the active form of recombinant mouse HGFA, recombinant human (rh) HGFA, or rhKallikreins 3, 5, and 11 is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 198811
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant mouse Pro-HGF Activator Gln35-Ser653 (predicted) Accession # Q9R098
Formulation	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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse HGF Activator (Catalog # 1200-SE)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
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

Pro-HGF-A (Hepatocyte growth factor activator protein) is a 96 kDa member of the PA-FXII-HGFA family of enzymes. It is secreted by hepatocytes and is found in plasma at approximately 40 nM concentration. Other cells selectively reported to express HGF-A include astrocytes, endothelium, fibroblasts and macrophages. Upon activation, HGF-A is known to activate both proHGF and proMSP via proteolytic cleavage. The circulating 96 kDa form of mouse HGF-A represents an inactive 619 amino acid (aa) proform (aa 35-653). Within this proform exists one FN type II domain (aa 100-147), an EGF-like domain (aa 157-195), an FN type III domain (aa 197-237), a second EGF-like domain (aa 238-276), a kringle domain (aa 283-364) and a functional peptidase S1 domain (aa 406-644). Activation of HGF-A typically occurs with a thrombin-mediated cleavage between Arg405-Ile406 and a KLK cleavage between Arg369-Val370. This creates a 34 kDa heterodimeric active product that contains a 2 kDa N-terminus (aa 370-405) disulfide linked to a 32 kDa C-terminus (aa 406-653). Once activated, the 34 kDa heterodimer binds to cell surface HAI-1, rendering it unavailable to circulating HGF. When needed, this HGF-A:HAI-1 complex is released, HGF-A dissociates from HAI-1, and HGF-A is free to activate proHGF. Over aa 35-653, mouse HGF-A shares 92% and 82% aa identity with rat and human HGF-A, respectively.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449