

DESCRIPTION

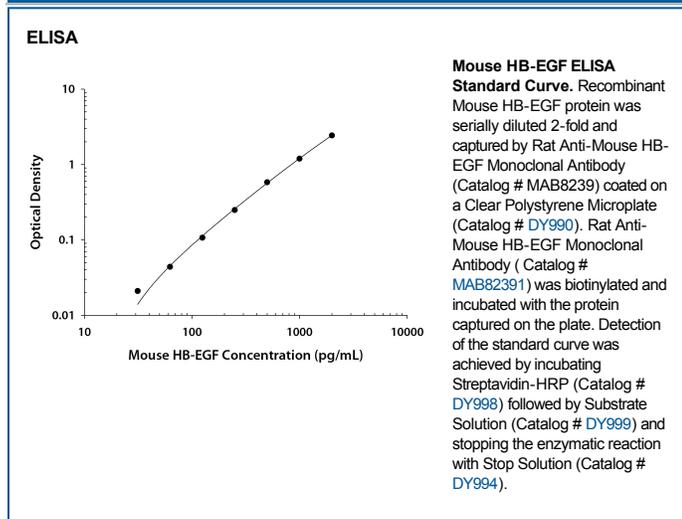
Species Reactivity	Mouse
Specificity	Detects mouse HB-EGF in direct ELISAs.
Source	Recombinant Monoclonal Rat IgG _{2A} Clone # 917525R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse HB-EGF Asp63-Leu148 Accession # Q06186
Formulation	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.

ELISA	This antibody functions as an ELISA capture antibody when paired with Rat Anti-Mouse HB-EGF Monoclonal Antibody (Catalog # MAB82391). <i>This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Mouse HB-EGF DuoSet ELISA Kit (Catalog # DY8239-05) for convenient development of a sandwich ELISA.</i>
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DATA



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. <ul style="list-style-type: none"> ● 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

Heparin-binding EGF-like growth factor, HB-EGF, is a 19-23 kDa glycoprotein, member of the EGF family of mitogens that exists in multiple forms as a result of heterogenous O-glycosylation. HB-EGF is a growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. It is required for normal cardiac valve formation and normal heart function and promotes smooth muscle cell proliferation. HB-EGF may be involved in macrophage-mediated cellular proliferation. The cDNA for mouse Proheparin-binding EGF-like growth factor encodes a 208 amino acid residue transmembrane protein that is proteolytically cleaved to generate the soluble HB-EGF. Like EGF, TGF-α, and AR, HB-EGF binds to the EGF receptor and activates the receptor tyrosine kinase. It has been suggested that the differential activities found for HB-EGF compared to EGF may be mediated by the heparin-binding properties of HB-EGF.