

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat GDF-8 in direct ELISAs and Western blots. In Western blots, this antibody shows approximately 30% cross-reactivity with recombinant human/mouse/rat GDF-11. In direct ELISAs, this antibody shows less than 1% cross-reactivity with recombinant mouse (rm) GDF-1, rmGDF-3, rmGDF-5, rmGDF-6, and rmGDF-9.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 84214
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse GDF-8 Asn25-Ser376 Accession # O08689
<b>Formulation</b>	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
<b>Western Blot</b>	1 µg/mL	Recombinant Human/Mouse/Rat GDF-8/Myostatin (Catalog # 788-G8)

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

GDF-8, also known as Myostatin, belongs to the TGF-β superfamily. It is synthesized as an inactive proprotein with the N-terminal pro-region and the C-terminal mature bioactive region. The GDF-8 proregion is capable of associating with active GDF-8 with high affinity and is a potent GDF-8 antagonist.