

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects recombinant human (rh)MSP $\beta$ chain in direct ELISAs and Western blots. Shows no cross-reactivity with rhMSP $\alpha$ chain.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 68801
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human MSP $\beta$ chain Val484-Gly711 Accession # P26927
<b>Endotoxin Level</b>	<0.10 EU per 1 $\mu$ g of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m 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 $\mu$ m 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 $\mu$ g/mL	Recombinant Human MSP $\beta$ Chain (Catalog # 635-MS) under non-reducing conditions only
<b>Blockade of Receptor-ligand Interaction</b>	In a functional ELISA, 0.01-0.05 $\mu$ g/mL of this antibody will block 50% of the binding of 5 ng/mL of Recombinant Human MSP (Catalog # 4306-MS) to immobilized Recombinant Human MSP R (Catalog # 1947-MS) coated at 1 $\mu$ g/mL (100 $\mu$ L/well). At 1 $\mu$ g/mL, this antibody will block >90% of the binding.	

**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**

MSP, also known as hepatocyte growth factor-like protein (HGF), and scatter factor-2 (SF2), is a member of the HGF family of growth factors. It is secreted as a single chain inactive precursor which is proteolytically activated to yield a biologically active disulfide-linked heterodimer of the alpha and beta chains. MSP induces keratinocyte proliferation, bone resorption, and cell migration and shape change in resident macrophages. Heterodimeric MSP binds to and activates the cell surface receptor tyrosine kinase, RON/STK, which is expressed on mature macrophages, keratinocytes, and vascular endothelium of wounded skin.