

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse MSP/MST1 in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human MSP is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse MSP/MST1 Gly19-Gly716 (Cys677Ala) Accession # NP_032269
<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.

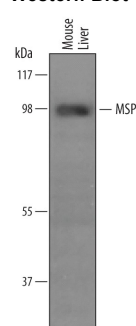
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

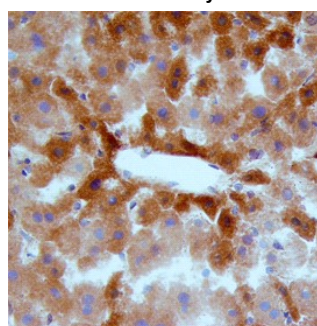
## DATA

### Western Blot



**Detection of Mouse MSP/MST1 by Western Blot.** Western blot shows lysates of mouse liver tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse MSP/MST1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6244) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for MSP/MST1 at approximately 96 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

### Immunohistochemistry



**MSP/MST1 in Mouse Liver.** MSP/MST1 was detected in perfusion fixed frozen sections of mouse liver using Sheep Anti-Mouse MSP/MST1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6244) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to hepatocytes. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<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 (Macrophage stimulating protein 1; also hepatocyte growth factor-like protein) is an 80-95 kDa member of the peptidase S1 family of proteins. Although it is expressed principally by hepatocytes, it can also be induced in cells such as renal tubular epithelium. MSP has multiple targets, and as such, has multiple effects. It stimulates macrophage motility and phagocytosis, promotes keratinocyte and renal tubular cell proliferation, and depresses myeloid progenitor cell replication. Mouse proMSP is 698 amino acids (aa) in length. It contains one PAN (carbohydrate-binding) site (aa 19-105), four consecutive kringle domains (110-457) and an inactive peptidase S1 region (aa 489-714). An intrachain disulfide bond exists between Cys477 and Cys593 that becomes an interchain bond following protease cleavage between Arg488 and Val489. This creates a mature heterodimer containing a 45-57 kDa α-chain, and a 30-35 kDa β-chain. Mouse proMSP shares 80% and 93% aa identity with human and rat proMSP, respectively.