

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse HSP10/EPF in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse HSP10/EPF Ala2-Asp102 Accession # Q64433
<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.

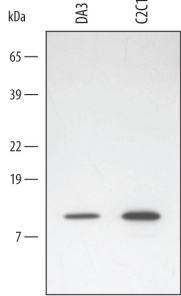
**APPLICATIONS**

**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>	0.5 µg/mL	See Below
<b>Simple Western</b>	25 µg/mL	See Below

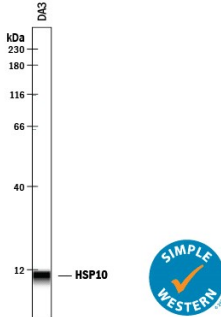
**DATA**

**Western Blot**



**Detection of Mouse HSP10/EPF by Western Blot.** Western blot shows lysates of DA3 mouse myeloma cell line and C2C12 mouse myoblast cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Mouse HSP10/EPF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2584) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for HSP10/EPF at approximately 10 kDa (as indicated). This experiment was conducted using *Immunoblot Buffer Group 2*.

**Simple Western**



**Detection of Mouse HSP10/EPF by Simple Western™.** Simple Western lane view shows lysates of DA3 mouse myeloma cell line, loaded at 0.2 mg/mL. A specific band was detected for HSP10/EPF at approximately 9 kDa (as indicated) using 25 µg/mL of Goat Anti-Mouse HSP10/EPF Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2584) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 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**

The heat shock proteins (HSPs) are a highly conserved family of stress response proteins. HSPs function primarily as molecular chaperones, facilitating the folding of other cellular proteins, preventing protein aggregation, or targeting improperly folded proteins to specific degradative pathways. Heat Shock Protein 10 (HSP10), also known as chaperonin 10 (Cpn10), HSPE1, and Early Pregnancy Factor (EPF), is a 10 kDa heat shock protein that functions within the cell as a molecular chaperone and is associated with HSP60 in the mitochondria. Early pregnancy factor (EPF) has been identified as an extracellular homologue of HSP10.