

**DESCRIPTION**

<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat p38 $\gamma$ in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant p38 $\alpha$ , p38 $\beta$ , or p38 $\delta$ is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 212464
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human p38 $\gamma$ Ala7-Leu367 Accession # P53778
<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 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	See Below
<b>Simple Western</b>	10 $\mu$ g/mL	See Below


**DATA**

**Western Blot**

**Detection of Human/Mouse/Rat p38 $\gamma$  by Western Blot.** Western blot shows lysates of C2C12 mouse myoblast cell line myoblast cell line and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 1  $\mu$ g/mL Mouse Anti-Human/Mouse/Rat p38 $\gamma$  Monoclonal Antibody (Catalog # MAB1347) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human p38 $\beta$ , p38 $\gamma$ , p38 $\delta$  and p38 $\alpha$  (2 ng/lane) were included. A specific band for native p38 gamma was detected at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 4](#).

**Simple Western**

**Detection of Mouse and Rat p38 $\gamma$  by Simple Western™.** Simple Western lane view shows lysates of C2C12 mouse myoblast cell line and PC-12 rat adrenal pheochromocytoma cell line, loaded at 0.5 mg/mL. A specific band was detected for p38 $\gamma$  at approximately 46 kDa (as indicated) using 10  $\mu$ g/mL of Mouse Anti-Human/Mouse/Rat p38 $\gamma$  Monoclonal Antibody (Catalog # MAB1347). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



**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**

p38 mitogen-activated protein kinase (MAPK) gamma is a serine-threonine protein kinase that is also known as p38 $\gamma$ , MAPK12, stress-activated protein kinase-3 (SAPK3) and extracellular signal-regulated kinase-6 (ERK6).