

## DESCRIPTION

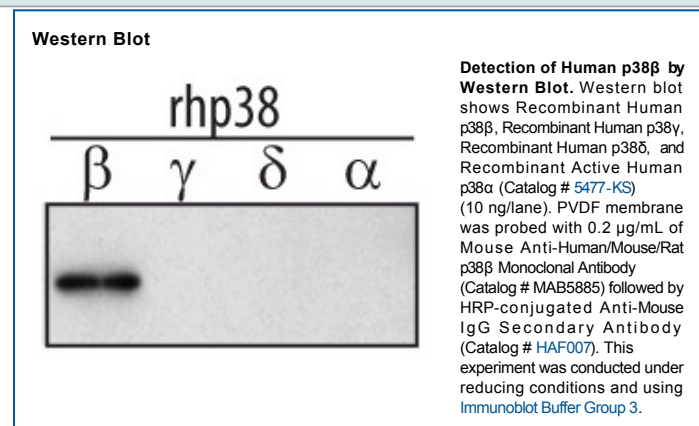
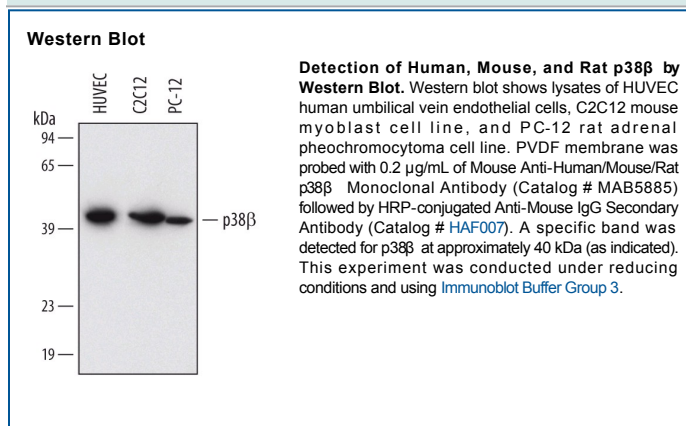
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat p38 $\beta$ in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>3</sub> Clone # 538307
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human p38 $\beta$ Met1-Thr107 Accession # NP_002742
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in Borate and NaCl with Trehalose. See Certificate of Analysis for details.

## 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>	0.2 $\mu$ g/mL	See Below

## DATA



## 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.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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 p38 mitogen-activated protein kinases (p38 MAP kinases) are a family of four related Ser/Thr kinases responsive to pro-inflammatory cytokines and environmental stresses, including ionizing radiation, oxidative stress, and osmotic shock. Each family member, p38 $\alpha$ , p38 $\beta$ , p38 $\delta$ , and p38 $\gamma$ , is activated by dual Thr and Tyr phosphorylation within a Thr-Gly-Tyr motif residing in the kinase activation loop. For p38 $\beta$ , also known as p38-2, stress-activated protein kinase 2B (SAPK2B), and MAPK11, this dual phosphorylation occurs at Thr180/Tyr182.