

Human/Mouse/Rat p38β Antibody

Monoclonal Mouse IgG₃ Clone # 538307 Catalog Number: MAB5885

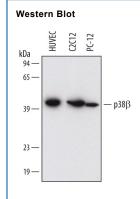
DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat p38β in Western blots.
Source	Monoclonal Mouse IgG ₃ Clone # 538307
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human p38β Met1-Thr107 Accession # NP_002742
Formulation	Lyophilized from a 0.2 µm filtered solution in Borate and NaCl with Trehalose. See Certificate of Analysis for details.

APPLICATIONS

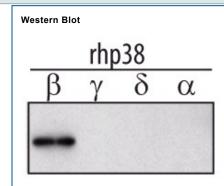
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below

DATA



Detection of Human, Mouse, and Rat p38ß by Western Blot. Western blot shows lysates of HUVEC human umbilical vein endothelial cells, C2C12 mouse myoblast cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human/Mouse/Rat p38ß Monoclonal Antibody (Catalog # MAB5885) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for p38ß at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.



Detection of Human p38ß by Western Blot. Western blot shows Recombinant Human p38β, Recombinant Human p38γ, Recombinant Human p38δ, and Recombinant Active Human p38α (Catalog # 5477-KS) (10 ng/lane). PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human/Mouse/Rat p38β Monoclonal Antibody (Catalog # MAB5885) followed by HRP-conjugated Anti-Mouse IaG Secondary Antibody (Catalog # HAF007). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Ctability 9 Ctarage	Use a manual defrect freezes and avoid repeated freeze they evolve	

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
 - 12 months from date of receipt, -20 to -70 °C as supplied.
 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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, p38α, p38β, p38β, and p38γ, is activated by dual Thr and Tyr phosphorylation within a Thr-Gly-Tyr motif residing in the kinase activation loop. For p38β, also known as p38-2, stress-activated protein kinase 2B (SAPK2B), and MAPK11, this dual phosphorylation occurs at Thr180/Tyr182.

