Human/Mouse/Rat p38γ Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF1347

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat p38γ in Western blots. The antibody is highly specific for p38γ and in Western blots, shows extremely weak cross-reactivity with recombinant p38α, p38β, or p38δ after prolonged exposure to film.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human p38γ Accession # P53778
Formulation	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.

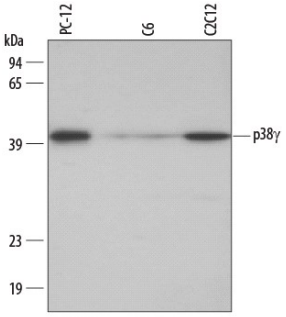
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below
Immunocytochemistry	3-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human breast, human skin cancer tissue, and mouse skeletal muscle
Simple Western	2 µg/mL	See Below

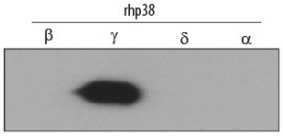
DATA

Western Blot



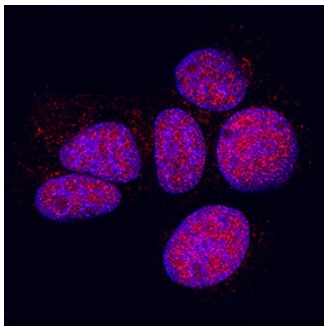
Detection of Mouse/Rat p38γ by Western Blot. Western blot shows lysates of PC-12 rat adrenal pheochromocytoma cell line, C6 rat glioma cell line, and C2C12 mouse myoblast cell line. PVDF membrane was probed with 0.2 µg/mL Rabbit Anti-Human/Mouse/Rat p38γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1347) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for p38γ was detected at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot



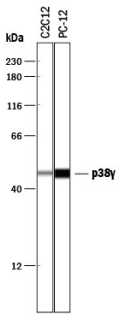
Detection of human p38γ by Western Blot. Western blot shows recombinant human p38β, p38γ, p38δ and p38α (1 ng/lane). PVDF membrane was probed with 0.2 µg/mL Rabbit Anti-Human/Mouse/Rat p38γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1347) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for p38γ was detected at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



p38γ in MCF-7 Human Cell Line. p38γ was detected in immersion fixed MCF-7 human breast cancer cell line using Rabbit Anti-Human/Mouse/Rat p38γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1347) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Simple Western



Detection of Mouse and Rat p38γ 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 0.2 mg/mL. A specific band was detected for p38γ at approximately 48 kDa (as indicated) using 2 µg/mL of Rabbit Anti-Human/Mouse/Rat p38γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1347). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	**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.

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BACKGROUND

p38 mitogen-activated protein kinase (MAPK)gamma, also known as p38γ, MAPK12, SAPK3 and ERK6 is a serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays a role in myoblast differentiation and also in the down-regulation of cyclin D1 in response to hypoxia in adrenal cells.

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