

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human p38 β in direct ELISAs. No cross-reactivity with recombinant human p38 alpha, gamma, or delta is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 280071
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human p38 β synthetic peptide EPPKPPGSLEIEQ Accession # NP_002742
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

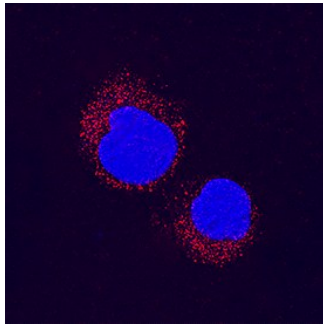
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 μ g/mL	See Below

DATA

Immunocytochemistry



p38 β in Jurkat Human Cell Line. p38 β was detected in immersion fixed Jurkat human acute T cell leukemia cell line using Mouse Anti-Human p38 β Monoclonal Antibody (Catalog # MAB3274) at 8 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

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. *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. <ul style="list-style-type: none"> ● 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, p38 α , p38 β , p38 δ , and p38 γ , is activated by dual Thr and Tyr phosphorylation within a Thr-Gly-Tyr motif residing in the kinase activation loop. For p38 β , also known as p38-2, stress-activated protein kinase 2B (SAPK2B), and MAPK11, this dual phosphorylation occurs at Thr180/Tyr182.