

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human p38β/MAPK11 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 p38β/MAPK11 synthetic peptide EPPKPPGSLEIEQ Accession # NP_002742
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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, p38δ, 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.

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