

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Calcineurin A.
Source	Monoclonal Rat IgG ₁ Clone # 302202
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Bovine brain Calcineurin holoenzyme (A and B subunits)
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Western Blot 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

Calcineurin A, also known as PP2B and PPP3CA, is the 59 kDa catalytic subunit of the calcium/calmodulin-dependent protein phosphatase. When activated by calcium in the presence of the regulatory B subunit and calmodulin, Calcineurin A selectively removes phosphates from serine and threonine residues on target proteins. Although ubiquitously expressed, Calcineurin levels are highest in brain, where the phosphatase plays a role in the formation and retention of memories. Calcineurin activity is inhibited by the immunosuppressant drug cyclosporine A bound to cyclophilins.

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