

DESCRIPTION

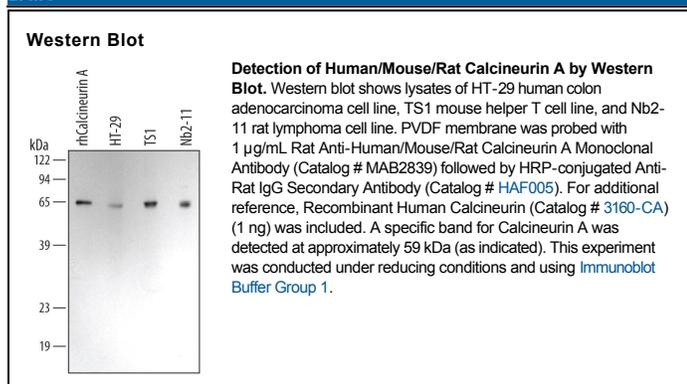
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Calcineurin A.
Source	Monoclonal Rat IgG ₁ Clone # 302202
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Bovine brain Calcineurin holoenzyme (A and B subunits)
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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	1 µg/mL	See Below

DATA



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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

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.