

Human/Mouse 14-3-3ζ Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2669

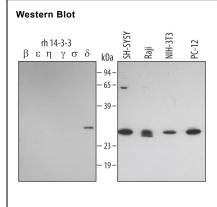
DESCRIPTION			
Species Reactivity	Human/Mouse Detects human, mouse, and rat 14-3-3ζ in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human 14-3-3 beta, epsilon, eta, gamma, or sigma is observed.		
Specificity			
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human 14-3-3ζ Met1-Asn245 Accession # P63104		
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	0.25 μg/mL	See Below

DATA



Detection of Human/Mouse 14-3-3ζ by Western Blot.

Western blot shows lysates of SH-SY5Y human neuroblastoma cell line. Raii human Burkitt's lymphoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.25 µg/mL Goat Anti-Human/ Mouse 14-3-37 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF2669) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). For additional reference, recombinant human 14-3-3 beta, epsilon, eta, gamma, sigma, and zeta (2 ng/lane) were included. A specific band for 14-3-3 zeta was detected at approximately 27 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

ShippingThe 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

- 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

14-3-3 proteins are a highly conserved family of homo- and heterodimeric phosphoserine/threonine-binding proteins present in high abundance in all eukaryotic cells. 14-3-3 proteins were the first polypeptides shown to have pSer/Thr binding properties, generally recognizing the consensus sequences RSXpSXP and RXY/FXpSXP (where X is any amino acid). 14-3-3 proteins act as key regulators of intracellular signal transduction through their ability to bind specific motifs phosphorylated on serine or threonine. For example, the binding of 14-3-3 to phosphorylated BAD blocks its proapoptotic association with Bcl-XL. There are at least seven distinct 14-3-3 genes in vertebrates, alpha/beta, epsilon, eta, gamma, theta, sigma and zeta (α/β , ϵ , η , γ , τ/θ , σ , and ζ/δ). 14-3-3 zeta, also known as Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein, zeta isoform (YWHAZ) is a 245 amino acid, 27 kDa protein.

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