

Product Data Sheet

Purified anti-14-3-3 ζ/δ

Catalog # / Size: 614801 / 50 μ l (5 Western blots)
 614802 / 200 μ l (20 Western blots)

Clone: Poly6148

Isotype: Rabbit IgG

Immunogen: Recombinant (partial), N-terminal

Reactivity: Mouse, Human

Preparation: The antibody was purified by antigen-affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

Storage: Upon receipt, store frozen at -20° C.

Applications:

Applications: WB - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 μ l per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

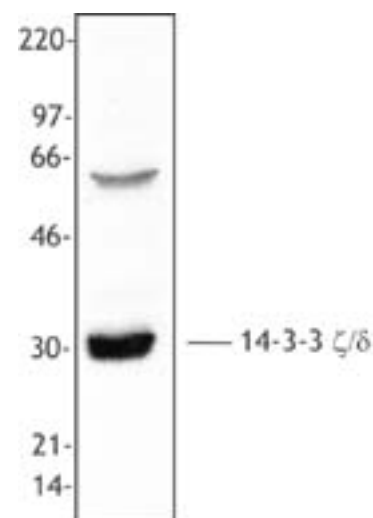
Application References: 1. Johnson JD, *et al.* 2006. *P. Natl. Acad. Sci. USA* 103:19575. Pubmed
 2. Liu B, *et al.* 2012. *PLoS One*. 7:e44701. PubMed.

Description: The 30 kD 14-3-3 cytoplasmic protein participates in signal transduction by binding to phosphoserine-containing proteins and activating protein kinase C. This protein has also been shown to activate tyrosine/ tryptophan hydroxylases in presence of Ca²⁺/calmodulin-dependent protein kinase II, regulate insulin sensitivity, inhibit tuberlin function, participate in actin cytoskeletal alterations, regulate cell adhesion, and inhibit the pro-apoptotic protein Bad. This protein forms dimers and can be modified by acetylation and phosphorylation. The δ isoform of 14-3-3 is phosphorylated on serine-185; phosphorylation disrupts dimerization. The 14-3-3 protein has been shown to interact with MAPKAPK2, IRS1, PKB/Akt, tuberlin, cofilin, LIMK1, ADAM 22, and Bad proteins. The Poly6148 antibody has been shown to be useful for Western blotting of the mouse and human 14-3-3 protein.

Antigen References: 1. Isobe T, *et al.* 1992. *FEBS Lett.* 308:121.
 2. Ogihara T, *et al.* 1997. *J. Biol. Chem.* 272:25267.
 3. Powell D, *et al.* 2002. *J. Biol. Chem.* 277:21639.
 4. Powell D, *et al.* 2003. *Mol. Cell Biol.* 23:5376.

Related Products:

Product	Clone	Application
Purified anti-Akt	Poly6034	IF, WB
Purified anti-BAD	Poly6117	WB
HRP Donkey anti-rabbit IgG (minimal x-reactivity)	Poly4064	ELISA, IHC, WB



Hela cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit anti-14-3-3 ζ/δ antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system. This antibody detects the 14-3-3 ζ/δ protein (30 kD) as well as a protein of unknown identity with a molecular weight of approximately 60 kD.



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