

Datasheet for ABIN5688906

anti-14-3-3 theta antibody (pSer58)[Go to Product page](#)

Overview

Quantity:	0.1 mL
Target:	14-3-3 theta (YWHAQ)
Binding Specificity:	pSer58
Reactivity:	Human, Mouse, Rat, Cow, Dog, Chicken, Xenopus laevis, Zebrafish (Danio rerio), Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This 14-3-3 theta antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser58 of rat 14-3-3 protein.
Purification:	Affinity Purified

Target Details

Target:	14-3-3 theta (YWHAQ)
Alternative Name:	14-3-3 (YWHAQ Products)
Background:	14-3-3 proteins are a family of highly conserved proteins that appear to have multiple roles in cell signaling (Bridges and Moorhead, 2005). The proteins are abundantly expressed in the brain and have been detected in the cerebrospinal fluid of patients with different neurological disorders (Berg et al., 2003). 14-3-3 proteins bind protein ligands that are typically

Target Details

phosphorylated on serine or threonine residues and regulate the functions of these binding partners by a number of different mechanisms (Silhan et al., 2004, Dougherty and Morrison, 2004). The 14-3-3 proteins affect a diverse array of cellular processes including the cell cycle and transcription, signal transduction and intracellular trafficking. These functions of 14-3-3 proteins are facilitated by, if not dependent on, its dimeric structure. Recent work has demonstrated that the dimeric status of the 14-3-3 protein is regulated by site-specific serine phosphorylation (Woodcock et al., 2003).

Molecular Weight: 29 kDa

Gene ID: 56011

UniProt: [P35213](#)

Pathways: [Apoptosis](#), [Myometrial Relaxation and Contraction](#)

Application Details

Application Notes: The antibody has been directly tested for reactivity in Western blots with human and rat tissue. It is anticipated that the antibody will react with bovine, canine, chicken, mouse, non-human primates, sheep, Xenopus and zebra fish based on the fact that these species have 100 % homology with the amino acid sequence used as antigen for this antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50 % glycerol.

Storage: -20 °C

Storage Comment: 14-3-3 antibody can be stored at -20°C and is stable at -20°C for at least 1 year.