14-3-3 ζ (Phospho-Ser58) Antibody

#11181

Catalog Number: 11181-1, 11181-2

Amount: 50 μg/50 μl, 100 μg/100 μl

Swiss-Prot No. : P63104

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

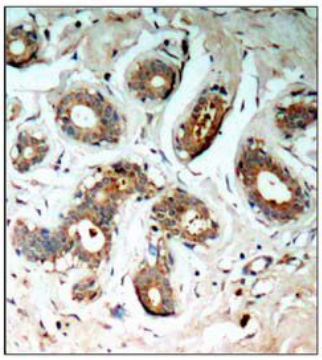
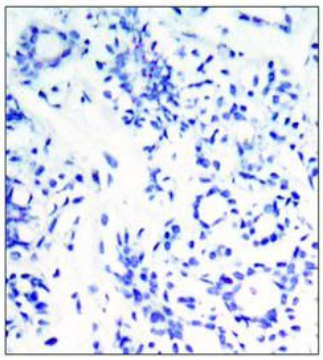
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human 14-3-3 ζ around the phosphorylation site of serine 58 (R-S-SP-W-R).

Purification: The antibody was affinity-purified from rabbit antiserum by epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

Specificity/Sensitivity: 14-3-3 ζ (Phospho-Ser58) antibody detects endogenous levels of 14-3-3 ζ only when phosphorylated at serine 58.

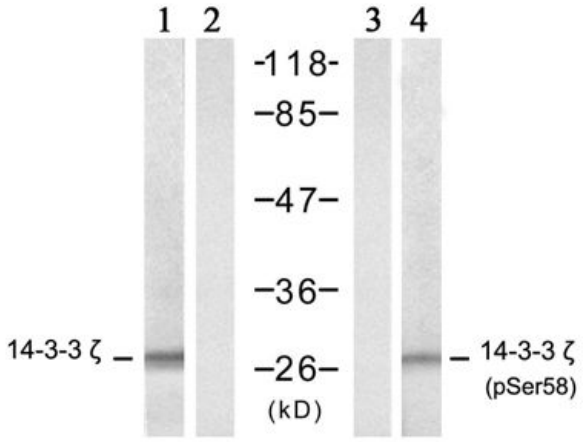
Reactivity: Human, Mouse, Rat

Applications: WB: 1:500~1:1000 IHC: 1:50-1:100 IF:1:100~1:200

P-Peptide - +

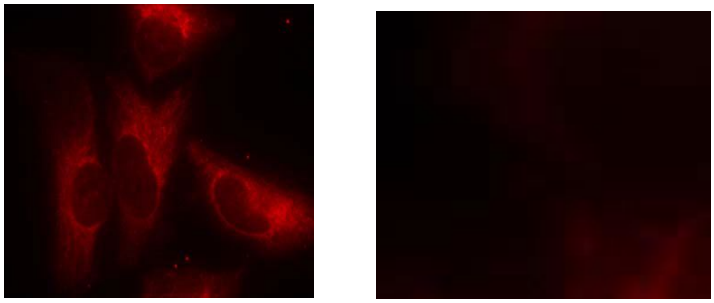
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using 14-3-3 ζ (Phospho-Ser58) antibody (#11181).



TNF-α - - - +

Peptide - + - -

Western blot analysis of extract from NIH/3T3 cells, untreated or treated with TNF-α (20ng/ml, 5min), using 14-3-3 ζ (Ab-58) antibody (#21188, lane 1 and 2) and 14-3-3 ζ (Phospho-Ser58) antibody (#11181, lane 3 and 4).



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and centrosomal staining using 14-3-3 ζ (Phospho-Ser58) antibody (#11181).

Background

This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and sheep orthologs. The encoded protein interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Several transcript variants that differ in the 5' UTR but that encode the same protein have been identified for this gene.

References: Gu YM, et al. (2006) FEBS Lett ; 580(1): 305-310
Powell DW, et al. (2003) Mol Cell Biol; 23(15): 5376-5387
Mackintosh C. (2004) Biochem J; 381(Pt 2): 329-342.