

AP05569PU-N**Polyclonal Antibody to 14-3-3 protein beta+zeta pSer185 - Purified**

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| Alternate names: | YWHAB, YWHAZ |
| Quantity: | 0.1 mg |
| Concentration: | 1.0 mg/ml |
| Host / Isotype: | Sheep / IgG |
| Immunogen: | Synthetic peptide corresponding to 14-3-3 beta and zeta phosphorylated at serine 185 AA Sequence: EILNSPEKAC |
| Format: | State: Liquid purified IgG fraction Purification: Affinity Chromatography Preservatives: 0.09% Sodium Azide |
| Applications: | Western Blot: 1/100-1/300. Detects a band of approximately 30kDa. Note: For the detection of phosphoproteins, serine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody recognizes the 14-3-3 isoforms beta and zeta which are phosphorylated at Serine 185. The members of the 14-3-3 family of proteins are highly conserved and are involved in multiple signalling pathways. The phosphorylated forms of beta and zeta 14-3-3 are found endogenously in brain tissue. |
| Species Reactivity: | Tested: Human, Bovine, Mouse, Rat, Rabbit, Sheep. Expected from sequence similarity: Mammals. |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |
| General Readings: | 1. Aitken A, Howell S, Jones D, Madrazo J, Patel Y. 14-3-3 alpha and delta are the phosphorylated forms of raf-activating 14-3-3 beta and zeta. In vivo stoichiometric phosphorylation in brain at a Ser-Pro-Glu-Lys MOTIF. J Biol Chem. 1995 Mar 17;270(11):5706-9. PubMed PMID: 7890696. |

Pictures:

Western blot with Sheep anti-14-3-3 (pSer185) antibody. Lane 1: 2µg recombinant 14-3-3 beta - Lane 2: 2µg recombinant 14-3-3 zeta - Lane 3: sheep brain homogenate, which contains ca. 50% of beta and zeta isoforms that are phosphorylated on Ser185 - The recombinant 14-3-3s are expressed in E.Coli and are not phosphorylated.

