

AP06766PU-N**Polyclonal Antibody to 14-3-3 protein epsilon - Aff - Purified**

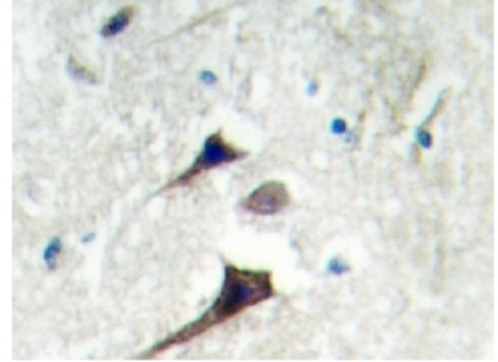
Alternate names:	14-3-3E, YWHAE
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms comprise this family of signaling intermediates, denoted 14-3-3 β , γ , ϵ , ζ , η , θ and σ . 14-3-3 proteins form dimers that present two binding sites for ligand proteins, thereby bringing together two proteins that may not otherwise associate. These ligands largely share a 14-3-3 consensus binding motif and exhibit serine/threonine phosphorylation. 14-3-3 proteins function in broad regulation of these ligand proteins, by cytoplasmic sequestration, occupation of interaction domains and import/export sequences, prevention of degradation, activation/repression of enzymatic activity and facilitation of protein modification, and thus loss of expression contributes to a vast array of pathogenic cellular activities.
Uniprot ID:	P62258
NCBI:	NP_006752.1
GenElD:	7531
Host:	Rabbit
Immunogen:	Synthetic peptide, corresponding to amino acids 200-250 of Human 14-3-3 ϵ .
Format:	State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Purification: Affinity Chromatography using epitope-specific immunogen Buffer System: Phosphate buffered saline (PBS), pH~7.2 Preservatives: 0.05% Sodium Azide
Applications:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	~29 kDa
Specificity:	This antibody detects endogenous levels of 14-3-3 ϵ protein. (region surrounding Asp238)
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse and Rat.
Storage:	Store undiluted at 2-8° for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Product Citations:**Originator or purchased from resellers:**

1. Nagappan A, Park HS, Park KI, Kim JA, Hong GE, Kang SR, et al. Proteomic analysis of differentially expressed proteins in vitamin C-treated AGS cells. *BMC Biochem.* 2013 Sep 26;14:24. doi: 10.1186/1471-2091-14-24. PubMed PMID: 24067024.
2. Nagappan A, Park HS, Park KI, Hong GE, Yumnam S, Lee HJ, et al. Helicobacter pylori infection combined with DENA revealed altered expression of p53 and 14-3-3 isoforms in Gulo^{-/-} mice. *Chem Biol Interact.* 2013 Nov 25;206(2):143-52. doi: 10.1016/j.cbi.2013.09.002. Epub 2013 Sep 11. PubMed PMID: 24035909.

Pictures:

Immunohistochemistry analyzes of 14-3-3 ϵ antibody (Cat.-No.: AP06766PU-N) in Paraffin-Embedded Human brain tissue.



Western blot (WB) analysis of 14-3-3 ϵ antibody (Cat.-No.: AP06766PU-N) at 1/500 dilution
Lane1:HEK293T cell lysate
Lane2:sp2/0 cell lysate
Lane3:H9C2 cell lysate

