

AP20329PU-N**Polyclonal Antibody to 14-3-3 protein theta - Aff - Purified**

Alternate names:	14-3-3 protein T-cell, 14-3-3 protein tau, Protein HS1, YWHAQ
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	It is a member of the 14-3-3 family which consists of 30 kDa proteins that are involved in multiple cell signalling pathways, regulation of cell cycle progression, cytoskeletal structure, transcription, intracellular trafficking and targeting. Protein interactions with 14-3-3 show distinct preferences for its different isoforms and are regulated by phosphorylation of both 14-3-3 and the bound protein. 14-3-3 tau/theta is primarily expressed in T-cells although it occurs at lower levels in the brain, heart, pancreas placenta and kidneys. It plays a role in cell cycle progression via interaction with p27(Kip1). Along with COPI, the theta isoform binds the GB1 RSR sequence involved in protein trafficking. The isoform forms a complex with Hsp60 and cellular prion protein which may be involved in prion diseases. Elevated levels of 14-3-3 tau/theta are observed in amyotrophic lateral sclerosis. 14-3-3 tau/theta also binds BCR/Abl, bacterial effector protein Tir, yes-associated protein and the FSH receptor.
Uniprot ID:	P27348
NCBI:	NP_006817
GeneID:	10971
Host:	Rabbit
Immunogen:	Synthetic peptide, corresponding to amino acids 200-240 of Human 14-3-3 θ .
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:	~28 kDa
Specificity:	This antibody detects endogenous levels of 14-3-3 θ/τ protein.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse, Rat.
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.

Pictures:

Western blot analysis of 14-3-3 theta antibody (Cat.-No AP20329PU-N) at 1/500 dilution:
Lane 1: Hela cell lysate.
Lane 2: sp2/0 cell lysate.
Lane 3: H9C2 cell lysate.

