Best Tools for immunology Research

14-3-3 θ/τ (phospho Ser232) Polyclonal Antibody

Catalog No :	YP0903
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	14-3-3 θ/τ
Fields :	>>Cell cycle;>>Oocyte meiosis;>>PI3K-Akt signaling pathway;>>Hippo signaling pathway;>>Hepatitis C;>>Hepatitis B;>>Viral carcinogenesis
Gene Name :	YWHAQ
Protein Name :	14-3-3 protein theta
Human Gene Id :	5350
Human Swiss Prot No :	P27348
Mouse Gene Id :	22630
Mouse Swiss Prot No :	P68254
Rat Gene Id :	25577
Rat Swiss Prot No :	P68255
Immunogen :	The antiserum was produced against synthesized peptide derived from human 14-3-3 thet/tau around the phosphorylation site of Ser232. AA range:196-245
Specificity :	Phospho-14-3-3 θ/τ (S232) Polyclonal Antibody detects endogenous levels of 14-3-3 θ/τ protein only when phosphorylated at S232.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not

yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 28kD

Cell Pathway : Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;Oocyte meiosis;Neurotrophin;Pathogenic Escherichia coli infection;

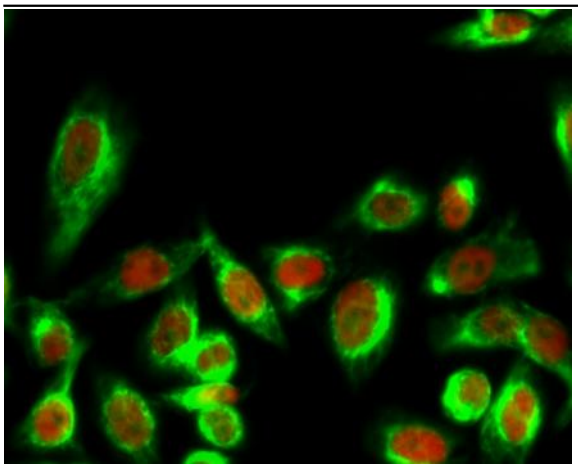
Background : This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse and rat orthologs. This gene is upregulated in patients with amyotrophic lateral sclerosis. It contains in its 5' UTR a 6 bp tandem repeat sequence which is polymorphic, however, there is no correlation between the repeat number and the disease. [provided by RefSeq, Jul 2008],

Function : function:Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathway. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner.,similarity:Belongs to the 14-3-3 family.,subcellular location:In neurons, axonally transported to the nerve terminals.,subunit:Homodimer. Interacts with PCTK1 (By similarity). Interacts with SSH1. Interacts with CDKN1B ('Thr-198' phosphorylated form); the interaction translocates CDKN1B to the cytoplasm.,tissue specificity:Abundantly expressed in brain, heart and pancreas, and at lower levels in kidney and placenta. Up-regulated in the lumbar spinal cord from patients with sporadic amyotrophic lateral sclerosis (ALS) compared with controls, with highest levels of expression in i

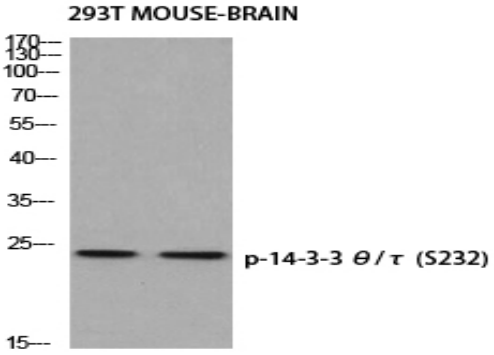
Subcellular Location : Cytoplasm. In neurons, axonally transported to the nerve terminals.

Expression : Abundantly expressed in brain, heart and pancreas, and at lower levels in kidney and placenta. Up-regulated in the lumbar spinal cord from patients with sporadic amyotrophic lateral sclerosis (ALS) compared with controls, with highest levels of expression in individuals with predominant lower motor neuron involvement.

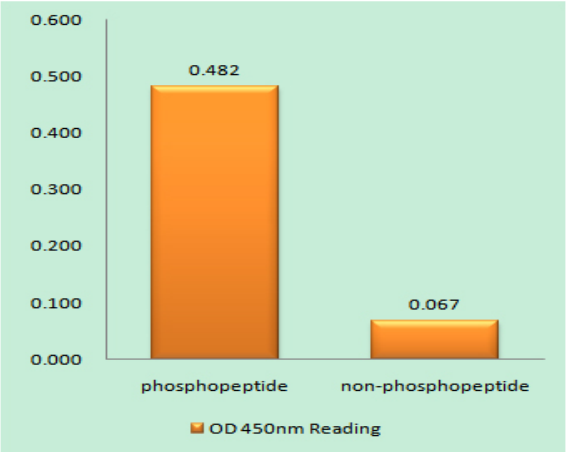
Products Images



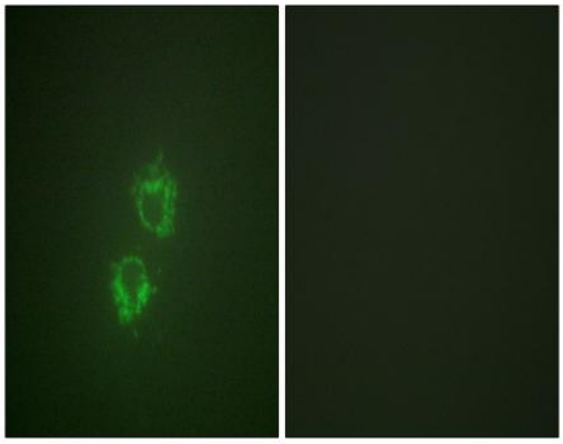
Immunofluorescence analysis of Hela cell. 1,14-3-3 θ/τ (phospho Ser232) Polyclonal Antibody(green) was diluted at 1:200(4° overnight). (red) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog:RS3608 was diluted at 1:1000(room temperature, 50min).



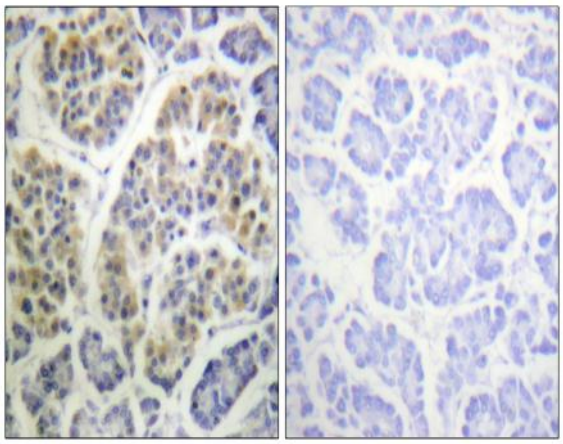
Western blot analysis of 293T MOUSE-BRAIN using p-14-3-3 θ/τ (S232) antibody. Antibody was diluted at 1:500



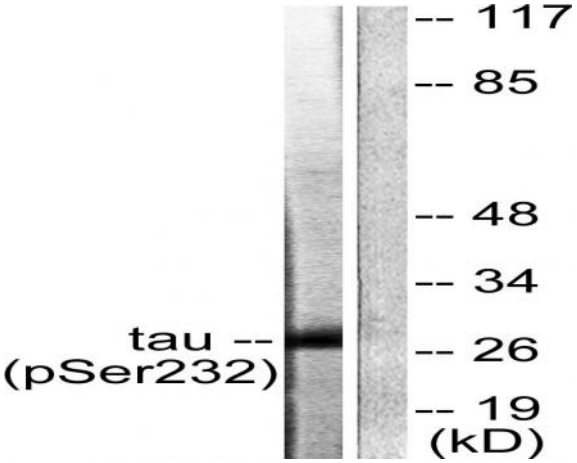
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using 14-3-3 thet/tau (Phospho-Ser232) Antibody



Immunofluorescence analysis of HeLa cells, using 14-3-3 thet/tau (Phospho-Ser232) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human pancreas, using 14-3-3 thet/tau (Phospho-Ser232) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells, using 14-3-3 thet/tau (Phospho-Ser232) Antibody. The lane on the right is blocked with the phospho peptide.