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Rabbit Anti-14-3-3 Theta antibody

SLM-52006R

Product Name	14-3-3 Theta
Chinese Name	14-3-3 ThetaRecombinant rabbit monoclonal anti
Alias	1433T_HUMAN; YWHAQ; 14-3-3 protein theta; 14-3-3 protein T-cell; 14-3-3 protein tau; Protein HS1;
Research Area	Neurobiology Signal transduction Apoptosis
Immunogen Species	Rabbit
Clonality	Monoclonal
React Species	Human,Mouse,Rat
Applications	WB=1:500-2000,ICC/IF=1:50-200,Flow-Cyt=1:50-100 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	28kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human 14-3-3 Theta protein, full length.
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	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:
Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. 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. Negatively regulates the kinase activity of PDPK1.

Subunit:
Homodimer. Interacts with CDK16. Interacts with RGS7 (phosphorylated form) (PubMed:10862767). Interacts with SSH1. Interacts with CDKN1B ('Thr-198' phosphorylated form); the interaction translocates CDKN1B to the cytoplasm. Interacts with GAB2. Interacts with the 'Ser-241' phosphorylated form of PDPK1. Interacts with the 'Thr-369' phosphorylated form of DAPK2 (PubMed:26047703). Interacts with PI4KB, TBC1D22A and TBC1D22B (PubMed:23572552). Interacts with SLITRK1 (PubMed:19640509). Interacts with RIPOR2 isoform 2 (PubMed:25588844). Interacts with INAVA; the interaction increases upon PRR (pattern recognition receptor) stimulation and is required for cellular signaling pathway activation and cytokine secretion (PubMed:28436939).

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

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 individuals with predominant lower motor neuron involvement.

Post-translational modifications:
Ser-232 is probably phosphorylated by CK1.

Similarity:
Belongs to the 14-3-3 family.

SWISS:
P27348

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Gene ID:
10971

Database links:

Entrez Gene: 10971 Human

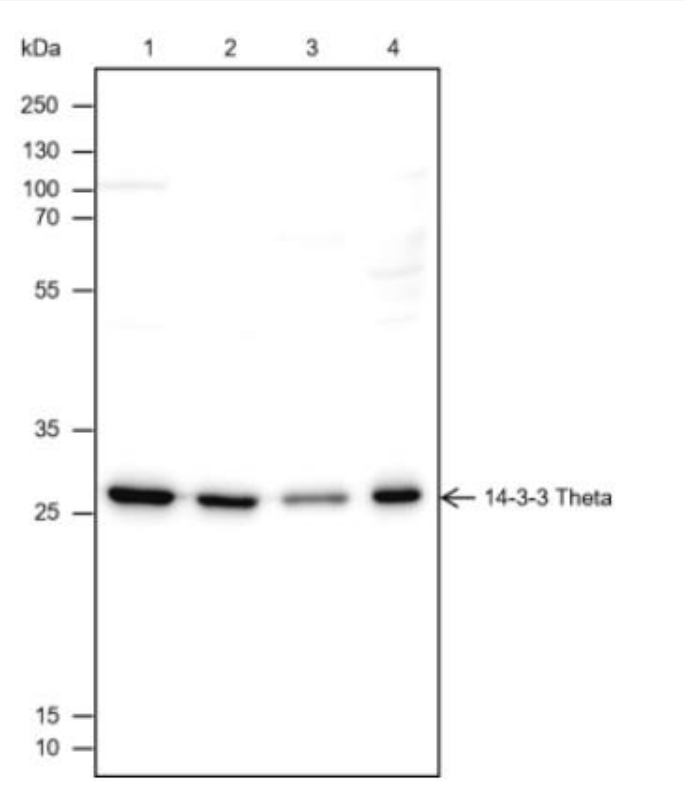
Entrez Gene: 22630 Mouse

Entrez Gene: 25577 Rat

Omim: 609009 Human

SwissProt: P27348 Human

Product Picture



Blocking buffer: 5% NFDM/TBST

Primary Ab dilution: 1:1000

Primary Ab incubation condition: 2 hours at

room temperature

Secondary Ab: Goat Anti-Rabbit IgG H&L (HRP)

(HRP)

Lysate:IMR-32, 2: Caco-2, 3: Mouse kidney, 4: Rat testis

Protein loading quantity: 20 μg

Exposure time: 60 s

Predicted MW: 28 kDa

Observed MW: 28 kDa