ARG57092
anti-14-3-3 tau / YWHAQ antibody [1A1]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1A1] recognizes 14-3-3 tau / YWHAQ
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	1A1
Isotype	IgG1, kappa
Target Name	14-3-3 tau / YWHAQ
Species	Human
Immunogen	Recombinant fragment around aa. 1-245 of Human 14-3-3 tau / YWHAQ
Conjugation	Un-conjugated
Alternate Names	14-3-3; Protein HS1; 1C5; HS1; 14-3-3 protein theta; 14-3-3 protein tau; 14-3-3 protein T-cell

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
WB	1:1000 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

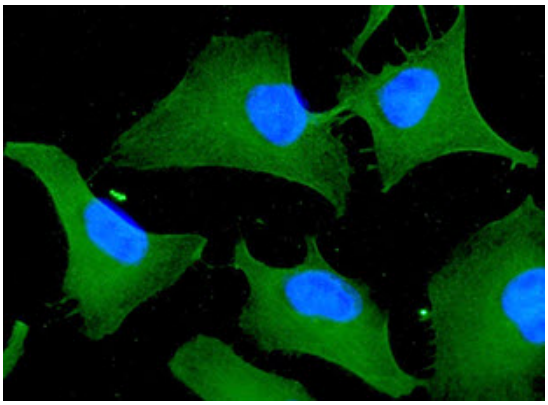
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 10971 Human Swiss-port # P27348 Human
Gene Symbol	YWHAQ
Gene Full Name	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta
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	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. [UniProt]
Calculated Mw	28 kDa
PTM	Ser-232 is probably phosphorylated by CK1.

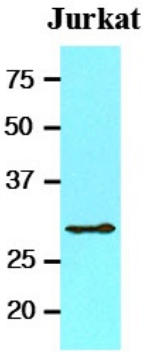
Images



ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] ICC/IF image

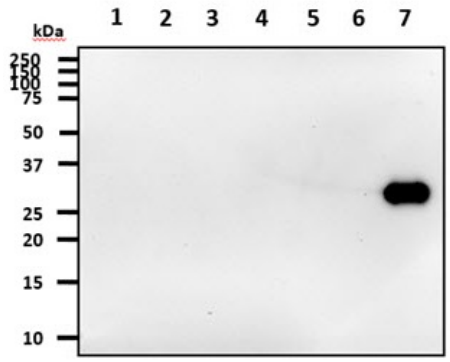
Immunofluorescence: HeLa cells line stained with ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



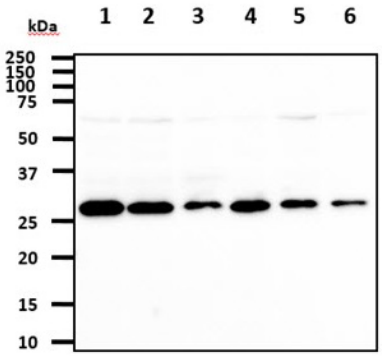
ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] WB image

Western blot: 20 µg of Jurkat cell lysate stained with ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] at 1:1000.



ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] WB image

Western blot: 50 ng of Human 1) YWHAZ, 2) YWHAB, 3) YWHAE, 4) YWHAH, 5) YWHAG, 6) SFN, and 7) YWHAQ recombinant proteins stained with ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] at 1:1000.



ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] WB image

Western blot: 40 µg of 1) MDA-MB-21, 2) HeLa, 3) A431, 4) NIH3T3, 5) 293T, and 6) HepG2 cell lysates stained with ARG57092 anti-14-3-3 tau / YWHAQ antibody [1A1] at 1:1000.