ARG10690
anti-14-3-3 eta antibody [3G12]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3G12] recognizes 14-3-3 eta
Tested Reactivity	Hu, Ms, Rat, Cow, Pig
Predict Reactivity	Chk
Tested Application	ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	3G12
Isotype	IgG1
Target Name	14-3-3 eta
Species	Human
Immunogen	Full length Human recombinant 14-3-3 eta protein.
Conjugation	Un-conjugated
Alternate Names	YWHA1; 14-3-3 protein eta; Protein AS1

Application Instructions

Application table

Application	Dilution
ICC/IF	1:500 - 1:1000
IHC-Fr	1:500 - 1:1000
WB	1:2000

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

Properties

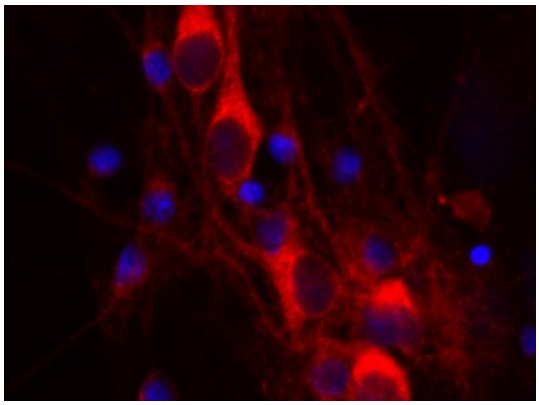
Form	Liquid
Purification	Affinity purification.
Buffer	PBS and 50% Glycerol.
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not 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

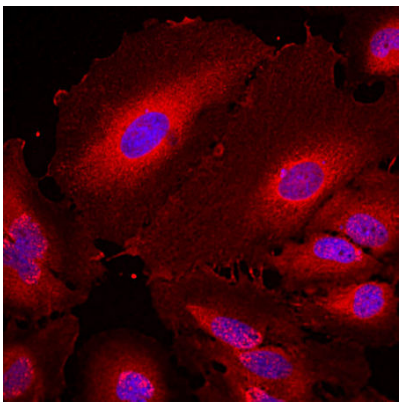
Gene Symbol	YWHAH
Gene Full Name	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta
Background	This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and bovine orthologs. This gene contains a 7 bp repeat sequence in its 5' UTR, and changes in the number of this repeat have been associated with early-onset schizophrenia and psychotic bipolar disorder. [provided by RefSeq, Jun 2009]
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	Phosphorylated on Ser-59 by protein kinase C delta type catalytic subunit in a sphingosine-dependent fashion.

Images



ARG10690 anti-14-3-3 eta antibody [3G12] ICC/IF image

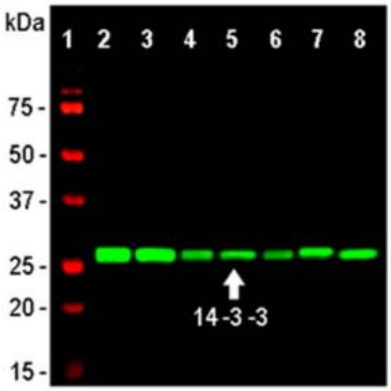
Immunocytochemistry: Rat mixed neuron / glial cell cultures stained with ARG10690 anti-14-3-3 eta antibody [3G12] (red). Neuronal perikarya are very rich in 14-3-3η which has a diffused cytoplasmic staining pattern. The blue is DAPI staining of nuclear DNA.



ARG10690 anti-14-3-3 eta antibody [3G12] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG10690 anti-14-3-3 eta antibody [3G12] (red) at 1:1000 dilution. DAPI (blue) for nuclear staining.

Clone 3G12 reveals the diffuse cytoplasmic distribution of 14-3-3 eta protein with higher concentration in the perinuclear region.



ARG10690 anti-14-3-3 eta antibody [3G12] WB image

Western blot: 1) protein standard, 2) Rat whole brain, 3) Mouse whole brain, 4) NIH/3T3, 5) Hek293, 6) HeLa, 7) SH-SY5Y, and 8) C6 cells stained with ARG10690 anti-14-3-3 eta antibody [3G12].