

## Anti-14-3-3 beta Antibody-FITC (9I180)

## Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	FITC
Clone:	9I180
Purification:	Protein A

## Applications

Verified Activity:	Profile of anti-YWHAB reactivity on HepG2 cells analyzed by flow cytometry.
Application:	FCM
Recommended	10 µl/Test, 0.1 mg/ml

## Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human 14-3-3 beta / YWHAB protein (TMPY-01266)
Antigen Species:	Human
Synonyms:	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, $\beta$ ; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta; 14-3-3 $\beta$
Biology Area:	phospho-Serine/phospho-Threonine Binding Proteins, Adaptor Proteins, Apoptosis Adaptor Proteins

## Research Background

14-3-3 beta / YWHAB is a member of the 14-3-3 proteins family. 14-3-3 proteins are a group of highly conserved proteins that are involved in many vital cellular processes such as metabolism, protein trafficking, signal transduction, apoptosis and cell cycle regulation. 14-3-3 proteins are mainly localized in the synapses and neuronal cytoplasm, and seven isoforms have been identified in mammals. This family of proteins was initially identified as adaptor proteins which bind to phosphoserine-containing motifs. Binding motifs and potential functions of 14-3-3 proteins are now recognized to have a wide range of functional relevance. 14-3-3 beta / YWHAB is found in both plants and mammals, and this protein is 100% identical to the mouse ortholog. 14-3-3 beta / YWHAB interacts with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. 14-3-3 beta / YWHAB has also been implicated in the pathogenesis of small cell lung cancer. 14-3-3 beta / YWHAB binding negatively regulates RSK1 activity to maintain signal specificity and that association/dissociation of the 14-3-3beta-RSK1 complex is likely to be important for mitogen-mediated RSK1 activation.

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