

Monoclonal Anti- β -Tubulin

Catalog# BTL1037

Lot # Check on the product label

Size 100 μ g

Isotype IgG1

Host Mouse

Reactivity

Human, mouse, rat, monkey, Chinese hamster, dog

Specificity

Detect the endogenous levels of total β -Tubulin protein.

Product Form Liquid

Immunogen

Protein fragment on C-terminal of human β -Tubulin.

Recommend Application

Western Blot (1:5000)

Immunofluorescence, IF (1:1000)

ELISA (1:1000-2000)

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Storage Instruction

Store at -20°C for 1 year.

Avoid repeated freeze and thaw cycles.

Background

Tubulin is one of several members of a small family of globular proteins. The most common members of the tubulin family are α -tubulin and β -tubulin, the proteins that make up microtubules. Each has a

molecular weight of approximately 55 kiloDaltons. Microtubules are assembled from dimers of α - and β -tubulin. These subunits are slightly acidic with an isoelectric point between 5.2 and 5.8.¹ Mutant huntingtin, disrupted intracellular transport and insulin secretion by direct interference with microtubular beta-tubulin. Mutant huntingtin impaired glucose-stimulated insulin secretion in insulin-producing beta cells, without altering stored levels of insulin. Smith et al. (2009) proposed a novel pathogenetic process by which mutant huntingtin may disrupt hormone exocytosis from beta cells and possibly impair vesicular transport in any cell that expresses the pathogenic protein.²

Reference

1. Williams RC Jr, Shah C, Sackett D (November 1999). "Separation of tubulin isoforms by isoelectric focusing in immobilized pH gradient gels". *Anal Biochem* 275 (2): 265 - 7.
2. Smith, R., Bacos, K., Fedele, V., Soulet, D., Walz, H. A., Obermuller, S., Lindqvist, A., Bjorkqvist, M., Klein, P., Onnerfjord, P., Brundin, P., Mulder, H., Li, J.-Y. Mutant huntingtin interacts with beta-tubulin and disrupts vesicular transport and insulin secretion. *Hum. Molec. Genet.* 18: 3942-3954, 2009.

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