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## PIN1 Mouse mAb

Catalog Number: bsm-51230M

Target Protein: PIN1

Concentration: 1mg/ml

Form: Liquid

Host: Mouse

Clonality: Monoclonal

Clone No.: 7H4

Isotype: IgG1

Applications: WB (1:500-2000), ELISA (1:5000-10000)

Reactivity: (predicted:Human, Mouse, Rat, Monkey)

Predicted MW: 18 kDa

Subcellular Cytoplasm ,Nucleus

Locations:

Entrez Gene: 5300

Swiss Prot: Q13526

Purification: affinity purified by Protein A

Storage: PBS with 0.02% Proclin300.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Pin1 is a Peptidyl-prolyl isomerases (PPIase). Peptidyl-prolyl isomerases (PPIase) facilitate the cis-trans interconversion of the peptidyl-prolyl bond thereby affecting protein folding. Pin1 is a PPIase which specifically recognizes phosphorylated S/T-P bonds. Pin1 has been implicated in tau pathologies that underlie Alzheimer's Disease. Pin1 binds to tau phosphorylated specifically on the Thr231-Pro site and induces conformational changes in tau. Such conformational changes can directly restore the ability of phosphorylated Tau to bind microtubules and promote microtubule assembly and/or facilitate tau dephosphorylation. Pin1 expression inversely correlates with the predicted neuronal vulnerability in normally aged brain and also with actual neurofibrillary degeneration in AD brain. Pin1 could be pivotal for maintenance of normal neuronal function and preventing age-dependent neurodegeneration.