MONOCLONAL ANTIBODY



Anti-Transglutaminase 2 (2A1)

Background : Transglutaminase(TGase) catalyses the crosslink of proteins by forming ε -(γ -glutamyl) lysine isopeptide bonds and requires the binding of Ca²⁺ for its activity. In mammals, eight distinct TGase isoenzymes have been identified. Tissue transglutaminase (tTGase), also known as TGase 2, has four distinct domains: N-terminal β-sandwich, catalytic core and two C-terminal β-barrel domains. tTGase may have a role in cell death, cell proliferation, cell differentiation, and receptor-mediated endocytosis. In the Alzheimer's disease brain, the elevated tTGase activity is manifested polymerization of a number of proteins, including Aβ peptide, β-amyloid precursor protein and the tau protein, with formation of neurofibrillary tangles.

Immunogen: Recombinant human

protein purified from *E.coli*

Host: Mouse

Clone number: 2A1

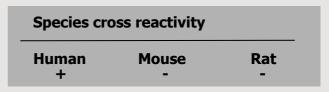
Isotype: IgG1, k

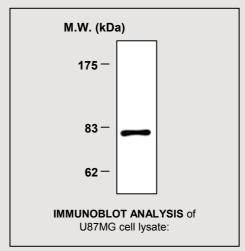
Size: 100ul

Composition : PBS containing 50% glycerol

Positive control: U87MG cell lysates

Storage : Store for 1 year at -20°C from date of shipment





Applications:

ELISA

Western Blotting (1:2000)

Immunoprecipitation (1-2ul/400ul lysates)

Background Reference:

- 1) Griffin, M. et al. (2002) Biochem. J. 368, 377-396
- 2) Fesus, L. and Piacentini, M. (2002) Trends. Biochem. Sci. 27(10), 534-539
- 3) Kim, SY. et al. (2002) Neurochem. Int. 40, 85-103

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