Catalog No. LF-MA0094

MONOCLONAL ANTIBODY

Anti-Transglutaminase 2 (14G2)

Background : Transglutaminase(TGase) catalyses the crosslink of proteins by forming ε-(γ-glutamyl) lysine isopeptide bonds and requires the binding of Ca^{2+} 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 by 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 : 14G2

Isotype : IgG1, k

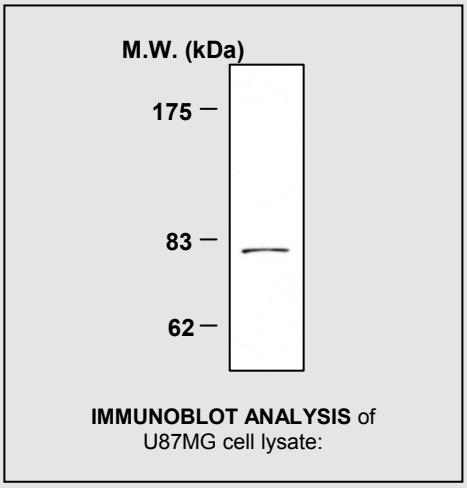
Size : 100ul

Composition : PBS containing 50% glycerol

Positive control : U87MG cell lysates

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

Species cross reactivity		
Human	**Mouse**	**Rat**
+	-	-



IMMUNOBLOT ANALYSIS of U87MG cell lysate:

Applications :
ELISA
Western Blotting (1:500)
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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