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INVESTIGATOR

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IMMUNOGEN

Substance

Name tissue transglutaminase

Origin guinea pig liver

Chemical Composition purified

Developmental Stage

IMMUNIZATION PROTOCOL

Donor Animal

Species mouse

Strain

Sex

Organ and tissue

Immunization

Dates immunized 1995

Amount of antigen

Route of immunization

Adjuvant

FUSION

Date

Myeloma cell line

Species

Designation

MONOCLONAL ANTIBODY

Isotype IgG2a, kappa light chain

Specificity

Cell binding

Immunohistology yes, human brain

Antibody competition

Species Specificity human, rat, guinea pig

ANTIGEN

Chemical properties tissue transglutaminase

Molecular weight ~78 kDa

Characterization

Immunoprecipitation yes

Immunoblotting yes

Purification

Amino acid sequence analysis

Functional effects

Immunohistochemistry yes

PUBLICATIONS :

Johnson, G.V., Cox, T.M., Lockhart, J.P., Zinnerman, M.D., Miller, M.L., and Powers, R.E. (1997). Transglutaminase activity is increased in Alzheimer's disease brain. *Brain Res.* 751, 323-329.

Zhang, J., Lesort, M., Guttman, R.P., and Johnson, G.V. (1998). Modulation of the in situ activity of tissue transglutaminase by calcium. *J. Biol. Chem.* 273, 2288-2295.

Lesort, M., Attanavanich, K., Zhang, J., and Johnson, G.V. (1998). Distinct nuclear localization and activity of tissue transglutaminase. *J. Biol. Chem.* 273, 11991-11994.

Lesort, M., Chun, W., Johnson, G.V., and Ferrante, R.J. (1999). Tissue transglutaminase is increased in Huntington's disease brain. *J. Neurochem.* 73, 2018-2027.



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ACKNOWLEDGMENTS STATEMENT

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