## **Turkish Journal of Medical Sciences**

Turkish Journal	Technical Approach to Generate Polyclonal Antibodies Against Bacterially Expressed GST- PYK- C: Evaluation of Cross-Reaction and Recognition in Some Mammalian and Yeast Cell
of	Lysates
Medical Sciences	Ayşegül AYYILDIZ Department of Biochemitry and Clinical Chemistry, Faculty of Medicine, Ankara University, Sıhhiye, Ankara-Turkey
Keywords Authors	<b>Abstract:</b> Pyk-2 is a protein tyrosine kinase, highly expressed in human hippocampus, dentate gyrus and olfactory bulb. In this study, polyclonal antibodies against the C-terminal of pyk-2, starting from Pro-759, were generated by injecting rabbits with the bacterially expressed GST fusion construct, generated by cloning the C-terminal domain of pyk-2 into pGEX-3X vector and affinity purification to increase the specificity of recognition. Anti-pyk-C was shown to recognize a 123 kD band in Western Blots of 293 cells transfected with pyk-2, as well as PC-12, COS and 3T3 cells and not to cross-react with FAK
@	transfected Sf-21 lysates, in spite of high sequence homology with FAK. This is an early study to develop quantitative immunochemical diagnostic assays, to determine the importance of pyk-2 in human physiology through clinical laboratory investigations. The use of bacterial expression systems in
medsci@tubitak.gov.tr	preference to other choices for antigen generation against native mammalian proteins are discussed, in context of the description of 'functional epitope'.
Scientific Journals Home Page	<b>Key Words:</b> pyk-2, Central Nervous System, Molecular Cloning, Gene Fusion, Bacterial Proteins, Antibody Formation, Antibody Specificity, Immunochemistry, Immunoblot-ting.
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