

P7

Production and characterization of monoclonal antibodies against thyroglobulin

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Twelve clones of monoclonal antibodies(mAbs) against thyroglobulin were produced and characterized. Among them, three mAbs (TN-1, TN-2 and TN-3) showed high binding affinity to thyroglobulin. From ELISA inhibition assay, TN-2 showed considerable reactivity with soluble thyroglobulin. TN-2 also reacted with phosphatidylserine which has a negative charge in aqueous condition. These results suggest that TN-2 has characteristics of autoantibody concerned with thyroiditis.