

## 急性期たん白質の甲状腺ホルモンによる誘導の効果

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# 1993 Fiscal Year Final Research Report Summary

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## Induction mechanism of expression of acute-phase protein genes by thyroid hormone

Research Project

### Project/Area Number

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04671347

### Research Category

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Grant-in-Aid for General Scientific Research (C)

### Allocation Type

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Single-year Grants

### Research Field

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Biological pharmacy

### Research Institution

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Kanazawa University

### Principal Investigator

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### Project Period (FY)

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1992 – 1993

### Keywords

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Thyroid hormone / Acute-phase proteins / alpha1-acid glycoprotein / gene expression

### Research Abstract

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We found someresults as follows ;

1) Some cultured cell lines, which were established from rat liver and expressed AGP by glucocorticoid stimulation, were obtained. We are now investigating the expression mechanism by glucocorticoid.

- 2) The palindromic region in the 1st intron of rat AGP gene was thyroid hormone responsive element and postulated thyroid hormone receptor(TTR) binding region. It was determined that TR bound this region.
- 3) Two DNaseI hypersensitive sites(HS-1 and 2) were found in 5'franking region of rat AGP gene. These regions were postulated to play an important role for gene expression induced by T3. These regions were subcloned. Binding protein(s) to these regions was studied by gel shift analysis, and the protein which specifically bind to these regions was observed.
- 4) The HS-2 fragments, one of two DNA fragments above, was further subcloned into two fragments, HS2a, and HS2b. There found specific binding protein(s) to both of HS2a and HS2b.
- 5) The same protein(s) could bind to HS2a and HS2b, we found.
- 6) The protein(s) was partially purified and characterized by South-Western method. The MWs of proteins that bound to these fragments were 120k, 77k, and 55k, for both fragments. It was further confirmed that the same protein(s) bound to two different fragments. The binding sites were determined by Methylation-interference Assay, and was different in the two fragments.

**URL:** [https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-04671347/046713471993kenkyu\\_seika\\_hokoku\\_](https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-04671347/046713471993kenkyu_seika_hokoku_)

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