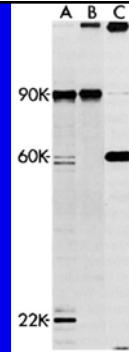


## An Activity Phosphorylating Tyrosine in Polyoma T Antigen Immunoprecipitates

Walter Eckhart, Mary Anne Hutchinson and Tony Hunter  
Cell 18 (1979)  
Presented by Karen Swanson  
April 12, 2005



•Immunoprecipitates of Polyoma T Antigens phosphorylate a 60 kDa protein

Figure 1. Protein Kinase Activity in Immunoprecipitates Containing Polyoma T Antigens

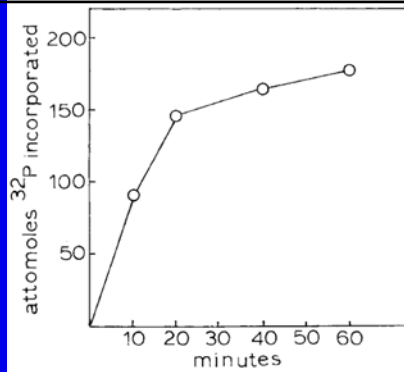
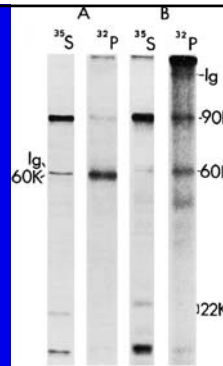
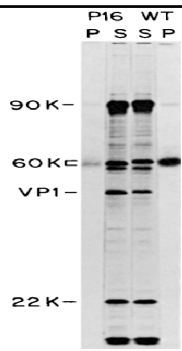


Figure 2. Time Course of Incorporation of <sup>32</sup>P in Immunoprecipitates



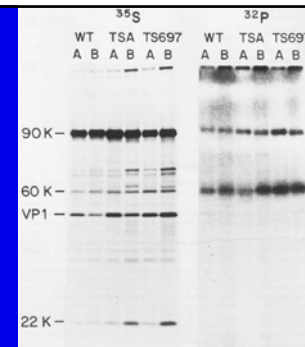
Heavy chain Ig is not phosphorylated

Figure 3. Protein Kinase Activity in Immunoprecipitates Prepared under Reducing or Nonreducing Conditions



Medium T Antigen is Phosphorylated

Figure 4. Comparison of the Proteins Phosphorylated in Vitro in Immunoprecipitates of Wild-type- and P16-Infected Cells



Loss of Large T Antigen function does not diminish Phosphorylation of Medium T Antigen

Figure 5. Protein Kinase Activity in Immunoprecipitates of Cells Infected with Polyoma tsA Mutants

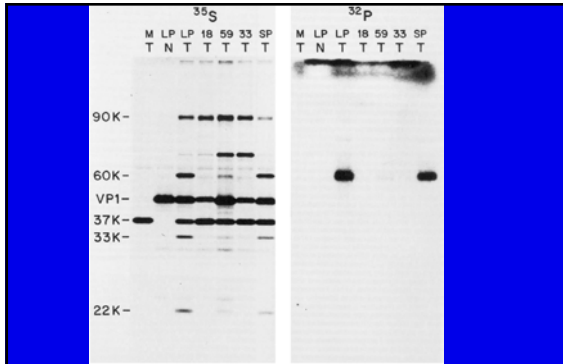


Figure 6. Protein Kinase Activity in Immunoprecipitates of Polyoma Hr-t Mutant-Infected Cells

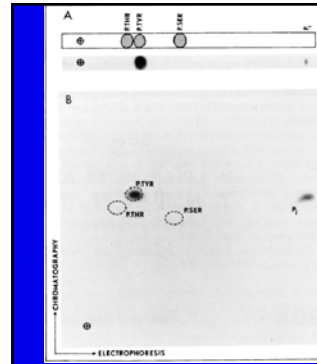


Figure 7. Identification of the Phosphorylated Residue in the Medium T Antigen

60 kDa Medium T Antigen is Tyrosine Phosphorylated

## Conclusions

T Antigen Immunoprecipitates have Kinase activity

60 kDa Medium T Antigen is Tyrosine Phosphorylated in vitro

\*The Kinase activity is found in anti-Tumor Immunoprecipitates and is likely to be the 60 kDa Medium T Antigen

