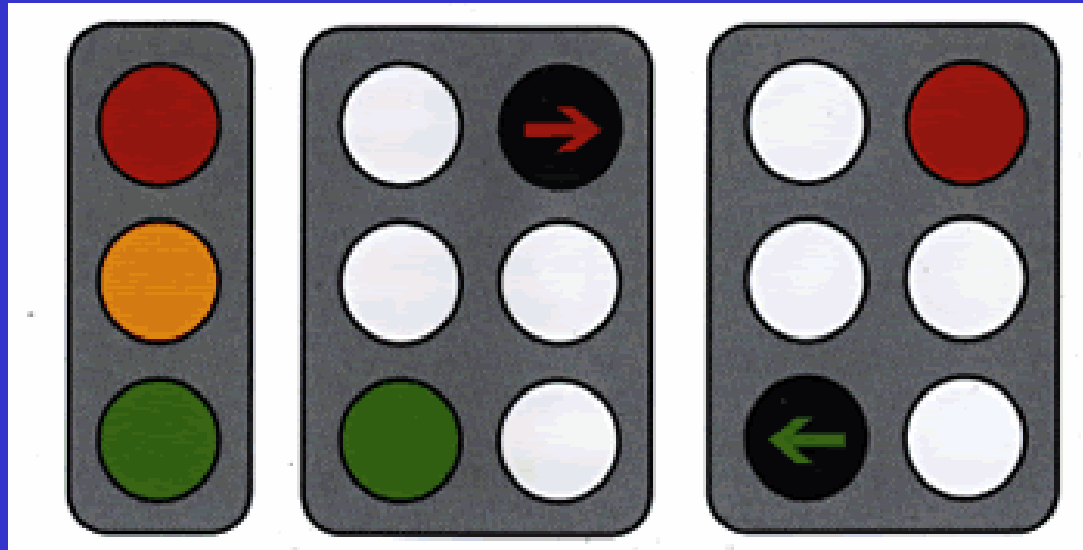
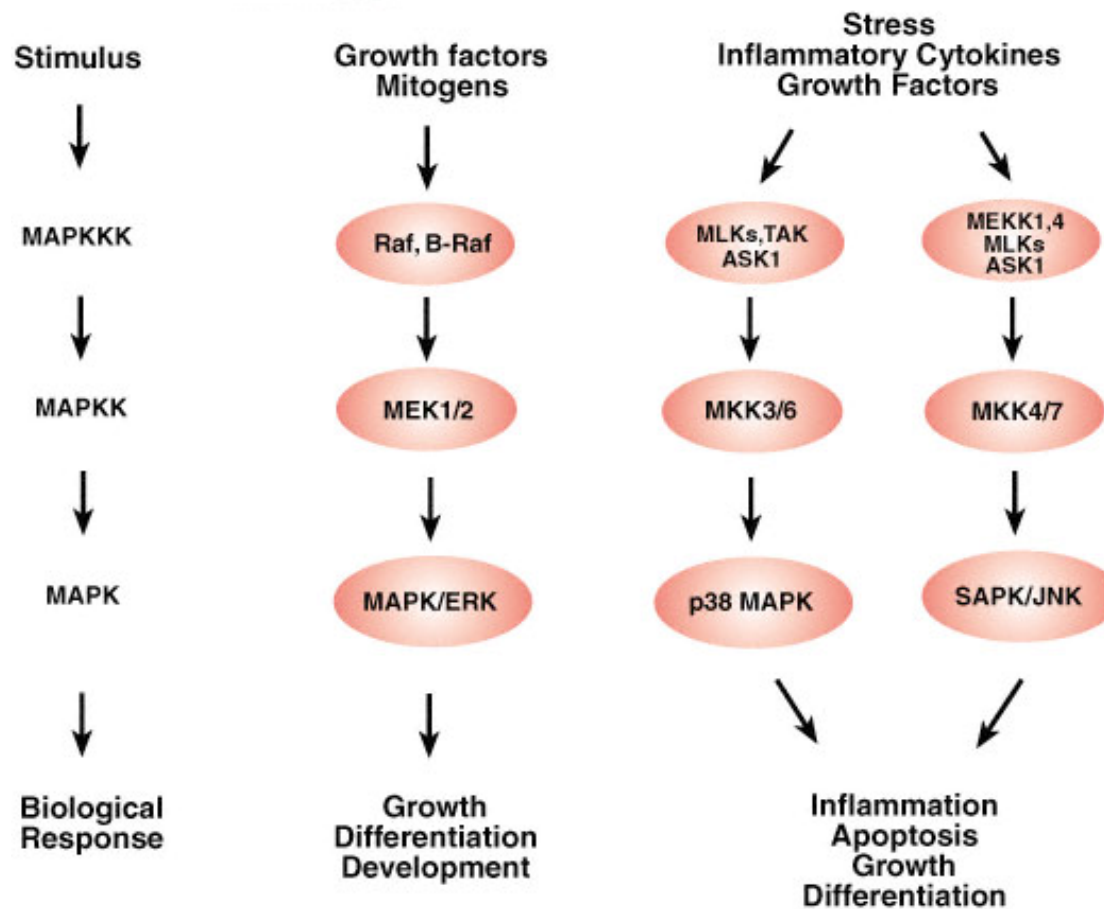


# Señalización Celular: MAPquinasas

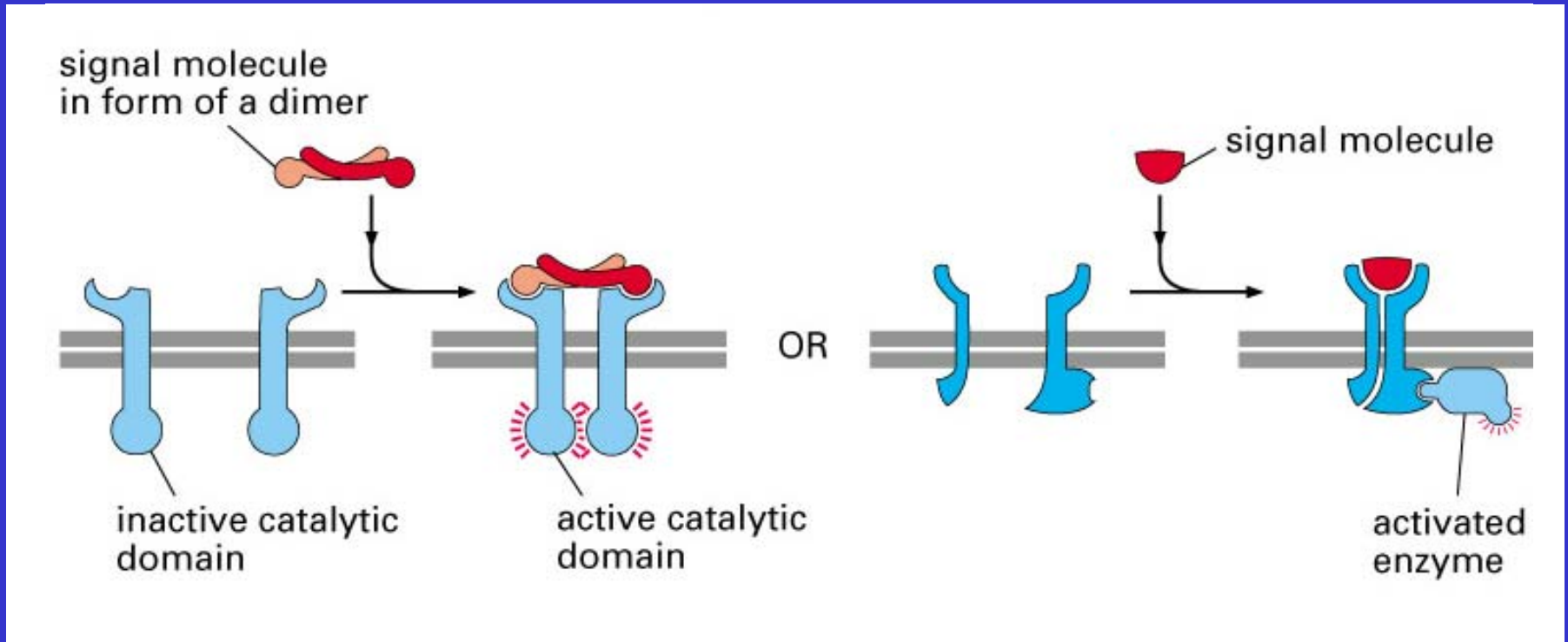


# MAPQuinasas

## MAPK signaling cascades



## Receptores con actividad enzimática

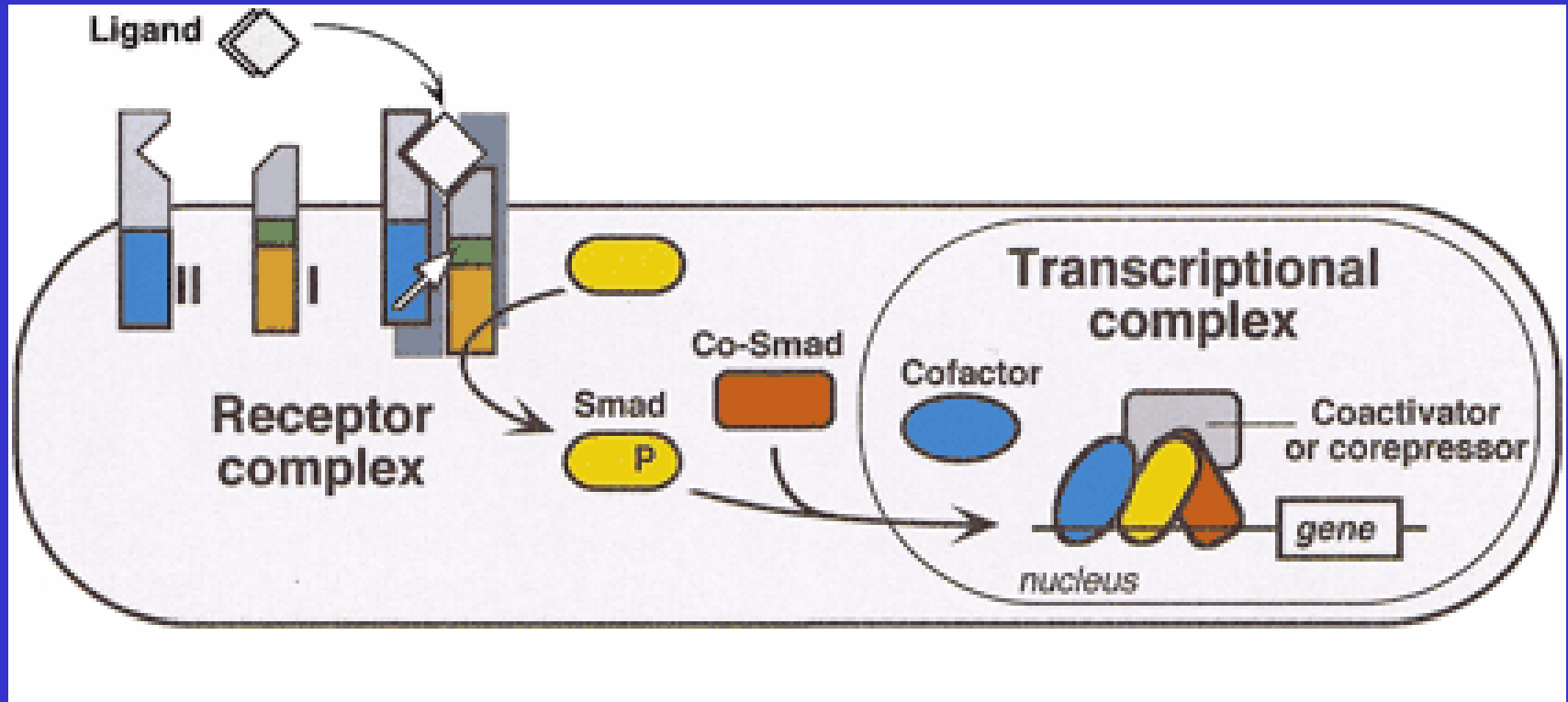


Receptor de Insulina

Receptor de Factores de Crecimiento

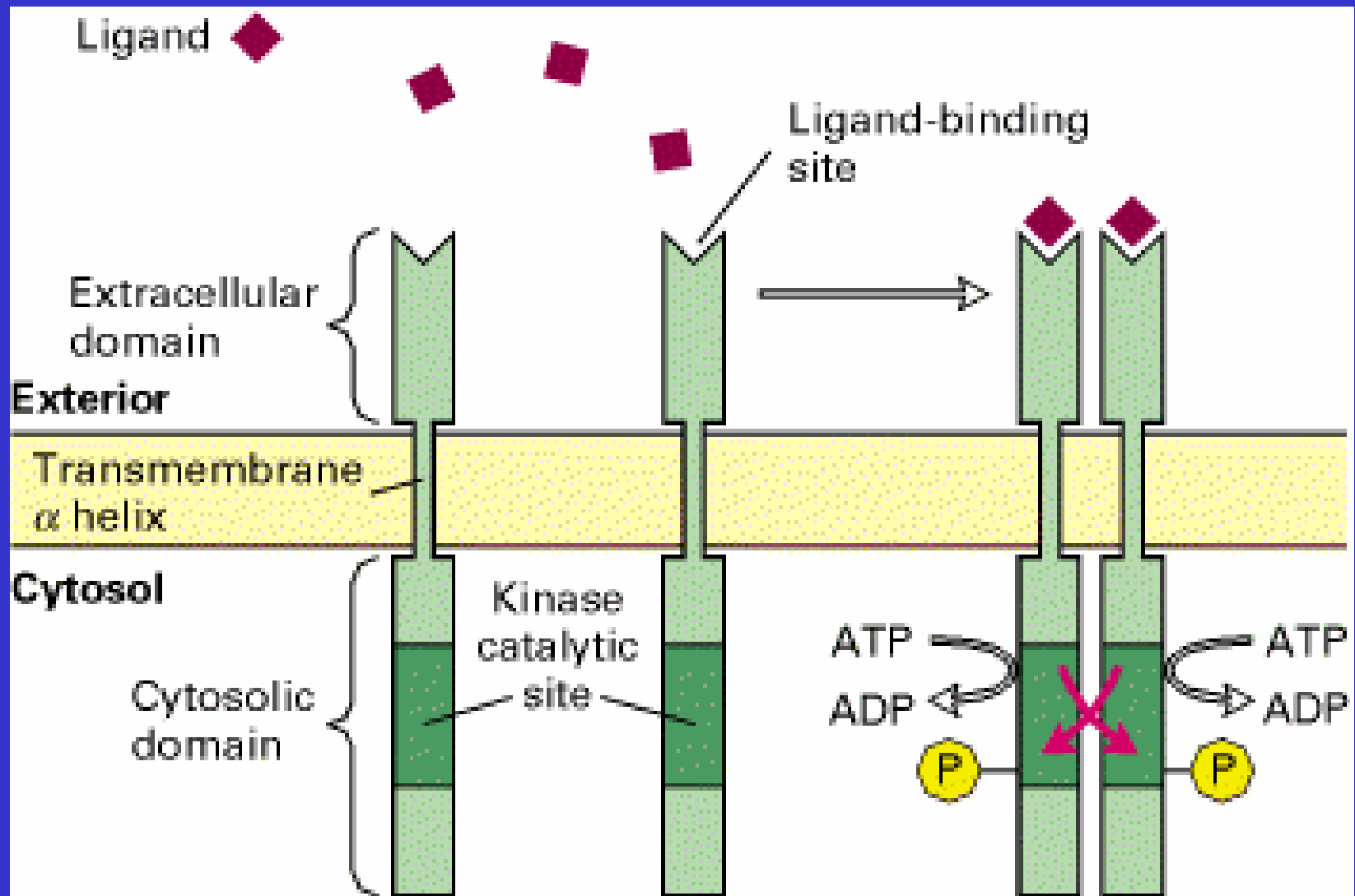
Actividad Tirosina Quinasa

## Receptor TGF- $\beta$ serina treonina quinasa

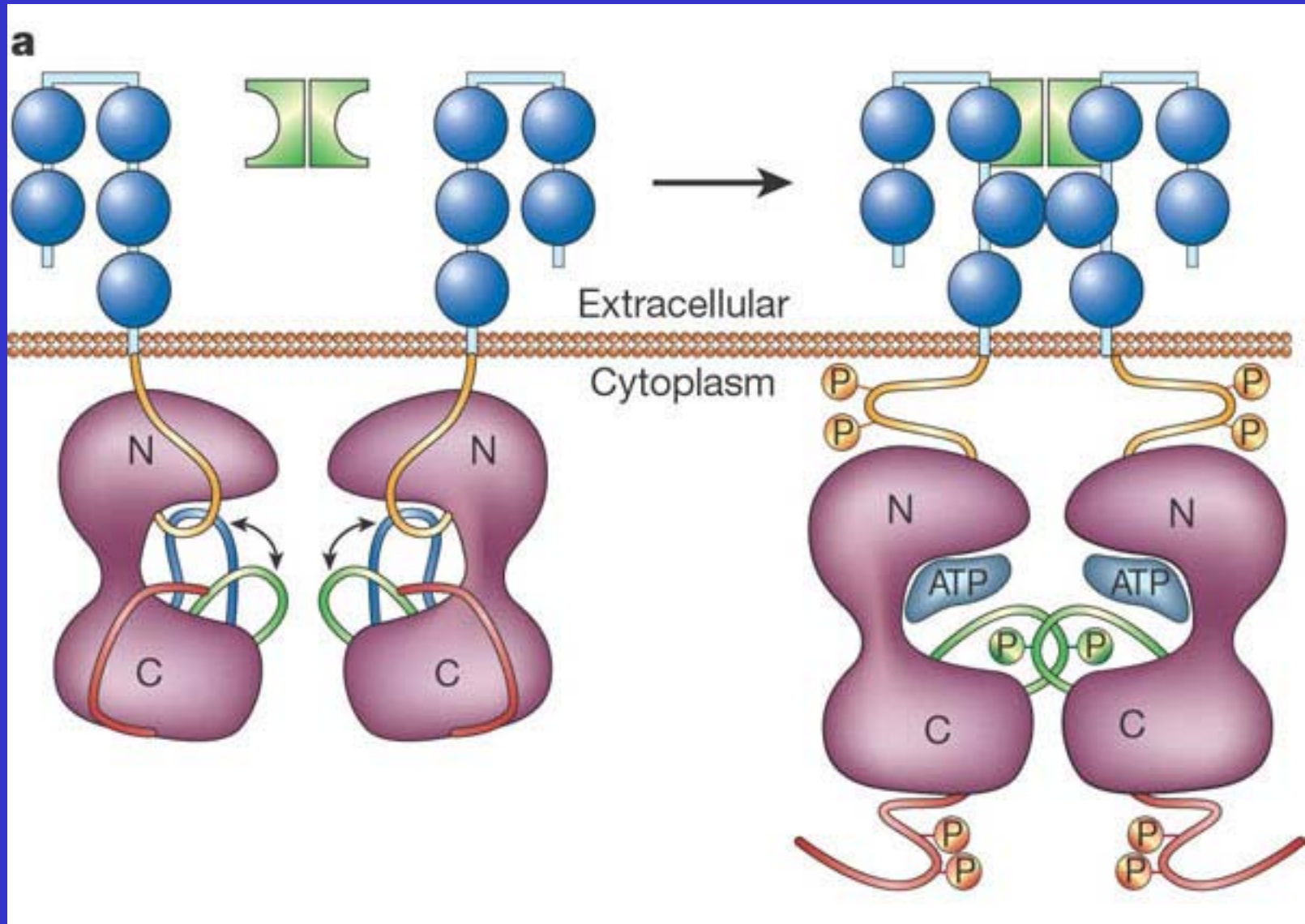


Funciones en desarrollo embrionario,  
reparación tisular, cáncer.

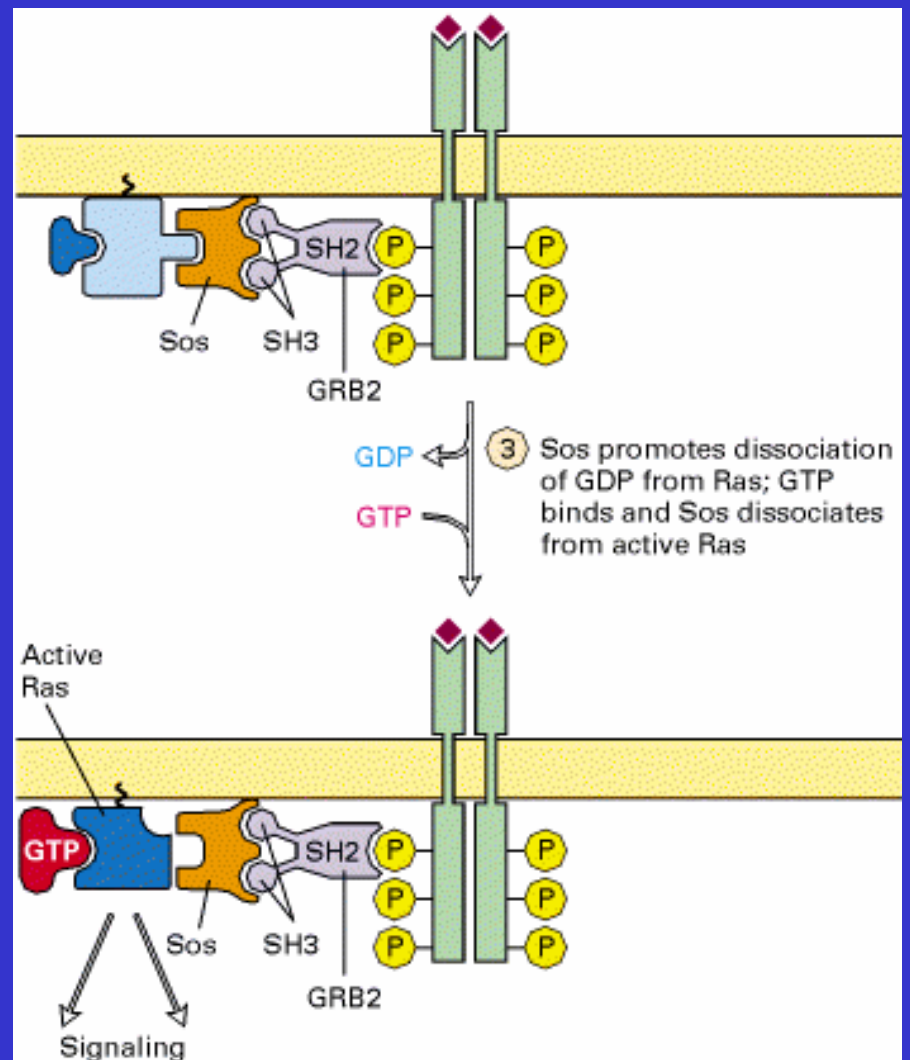
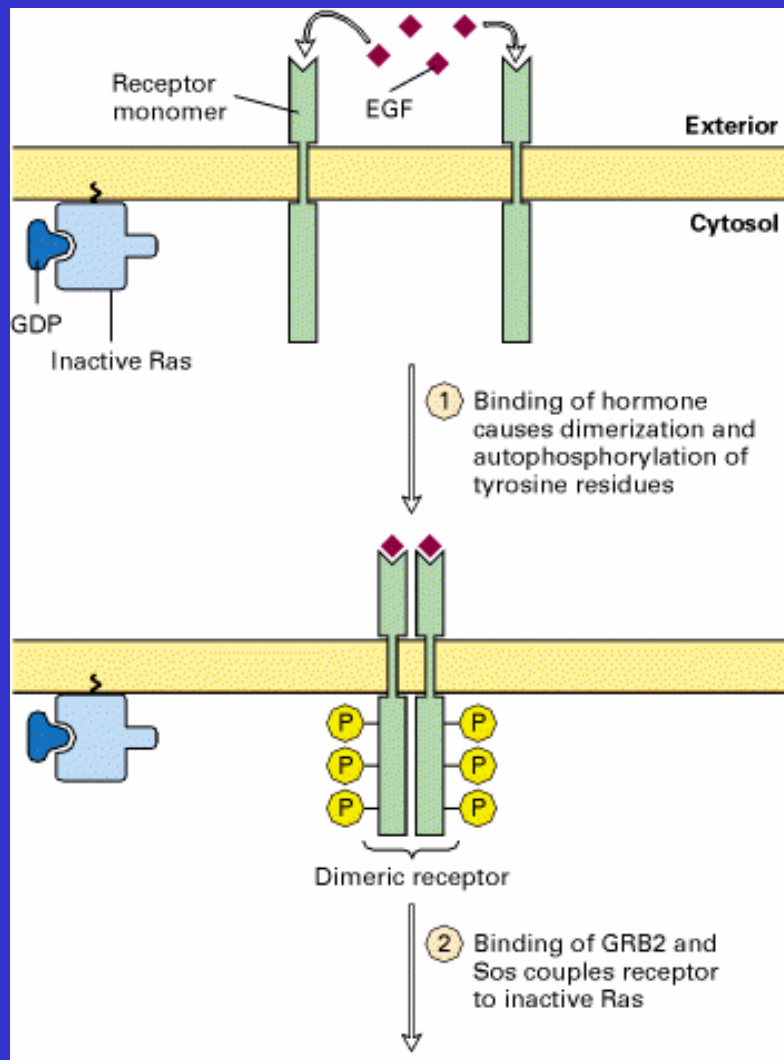
## Tirosina quinasa receptora.



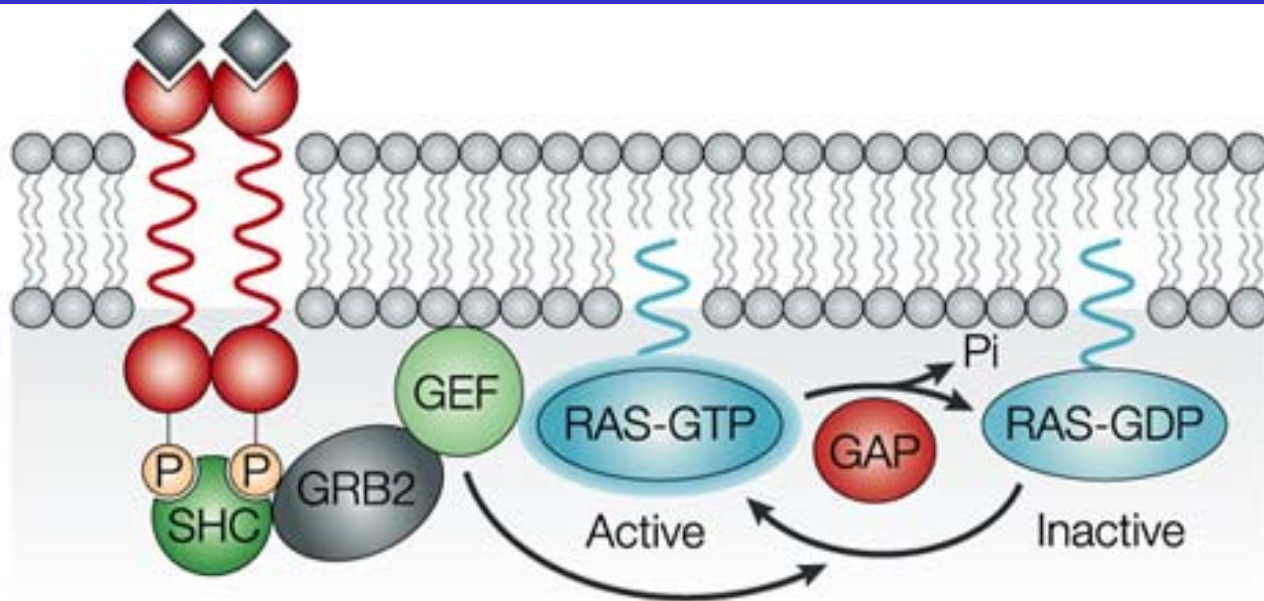
# Activación de Receptores Tirosina Quinasa



# Señalización por MAPQuinasas

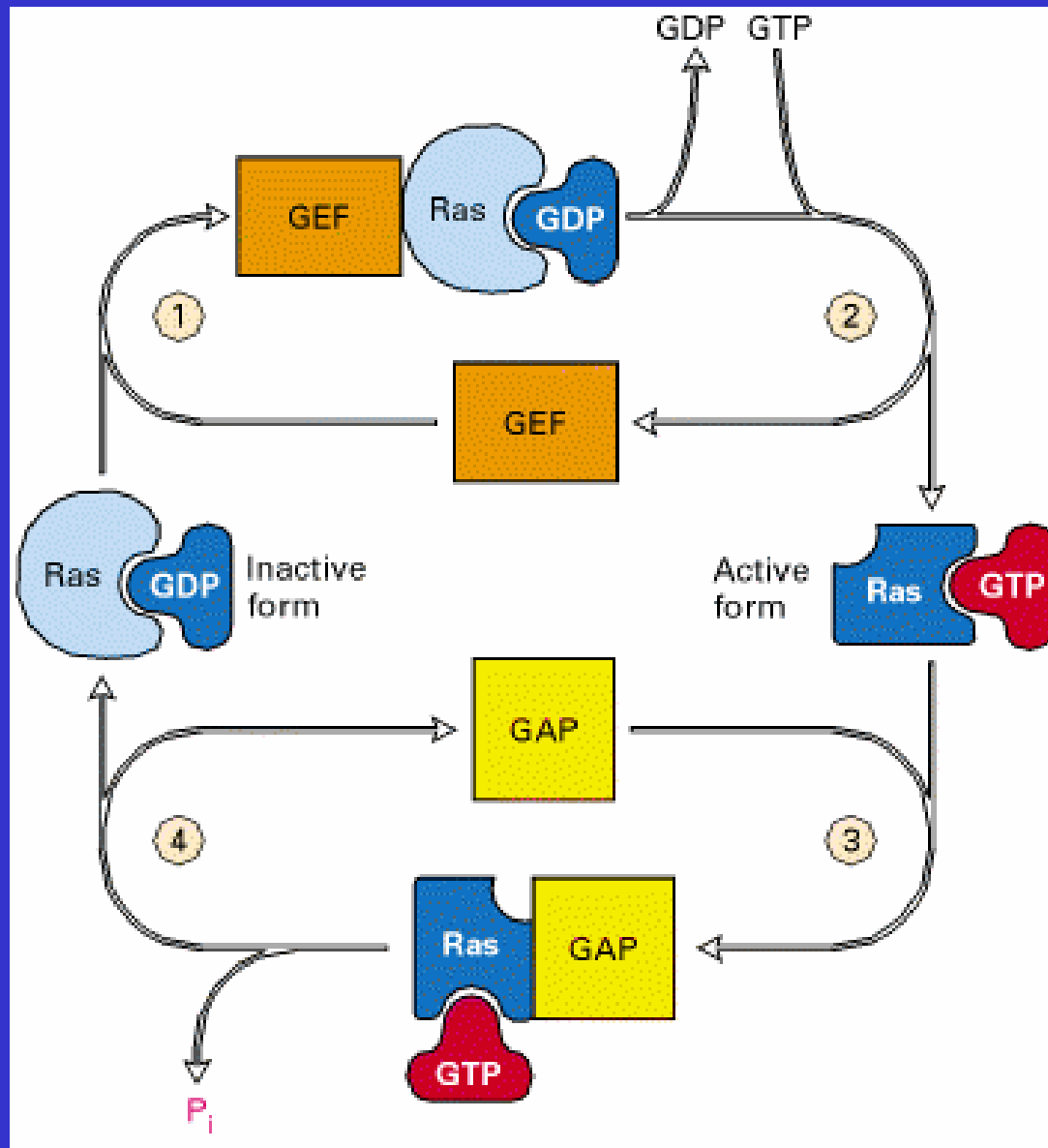


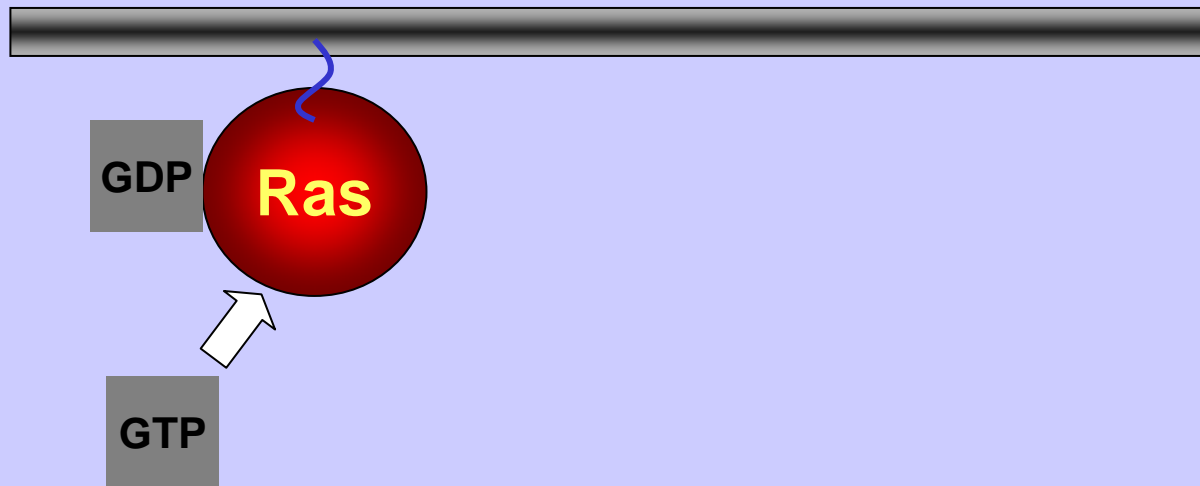
## Mecanismos de activación de Ras

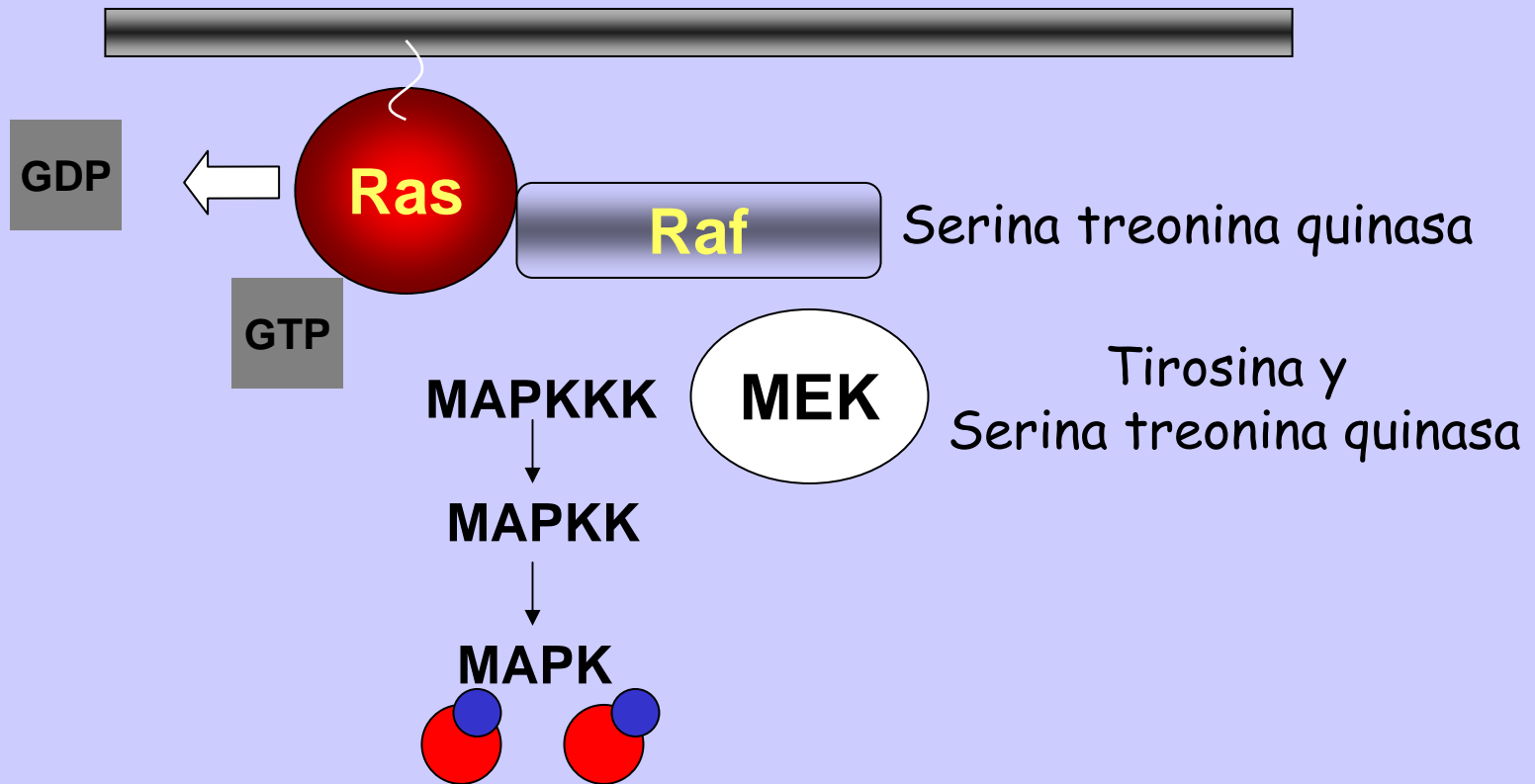


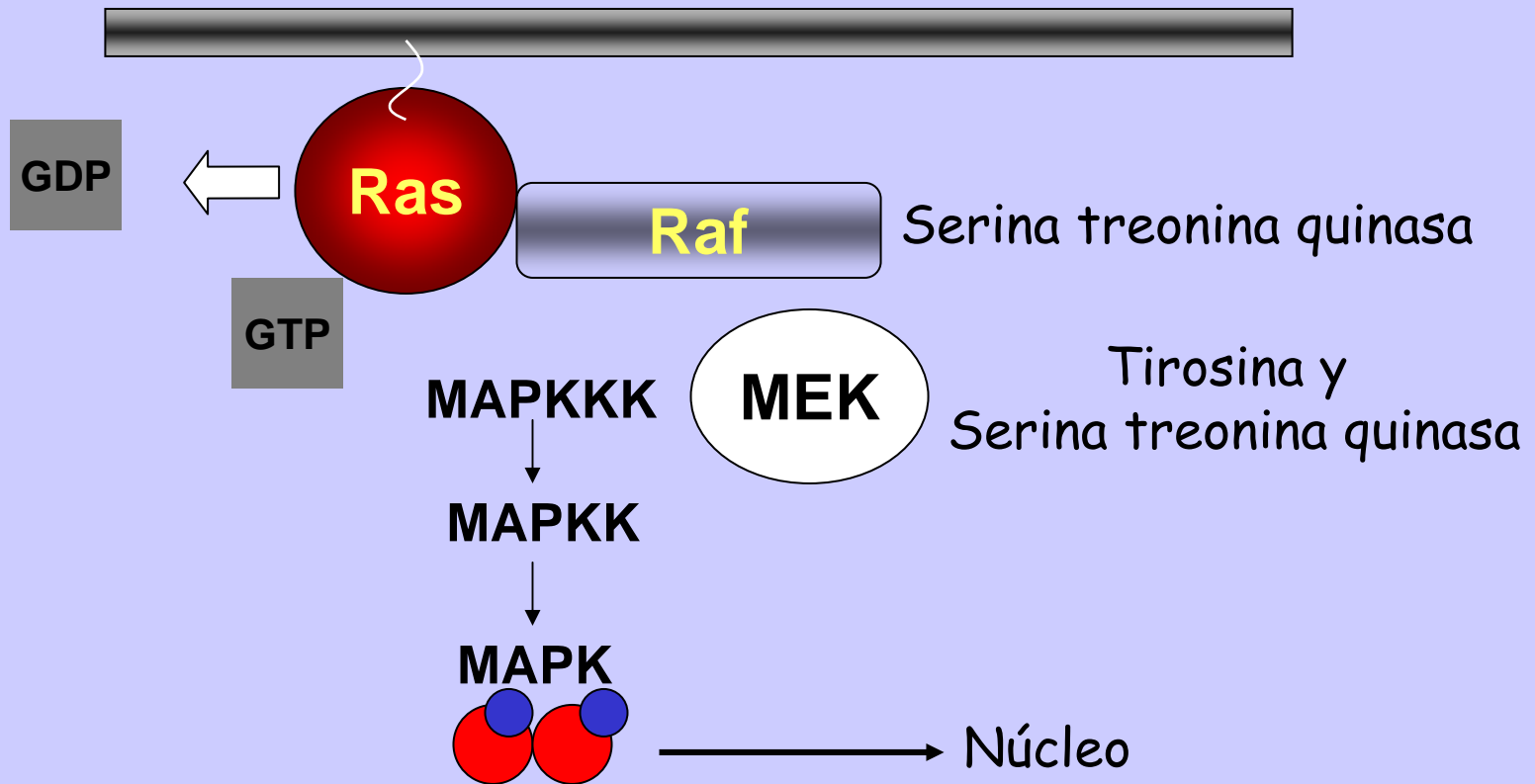


# Activación de Ras

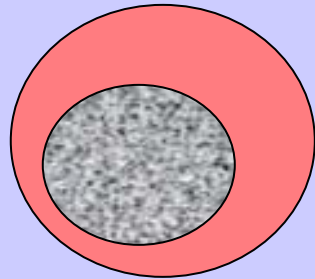
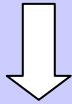








Factor de Crecimiento  
Ej PDGF, EGF

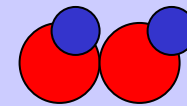


Célula en G<sub>0</sub>

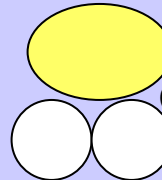


Genes de  
Respuesta  
Temprana

*C-fos*



MAPQuinasas



Factor del  
complejo ternario

Factor de Respuesta  
al suero

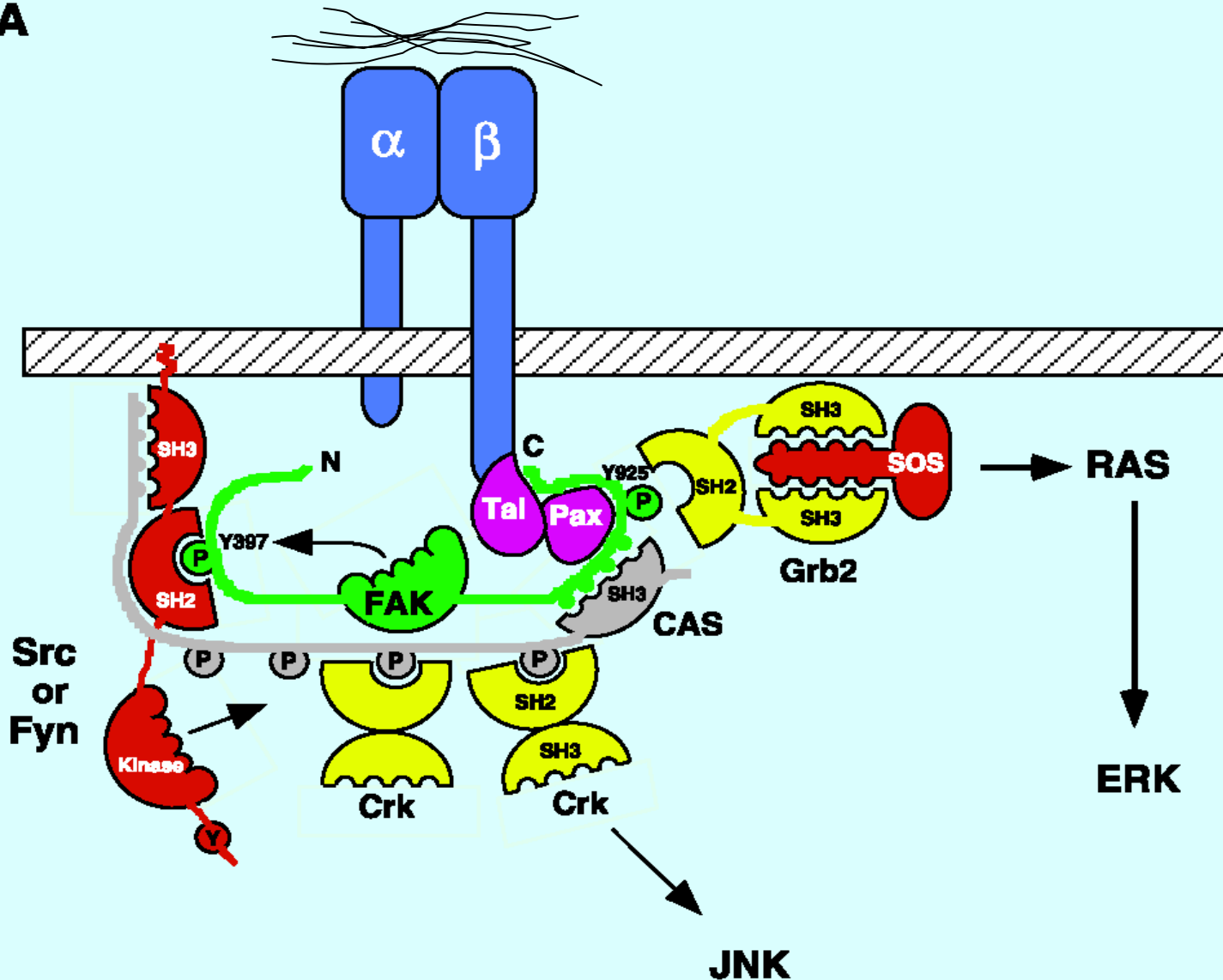


Elementos de  
respuesta al  
suero

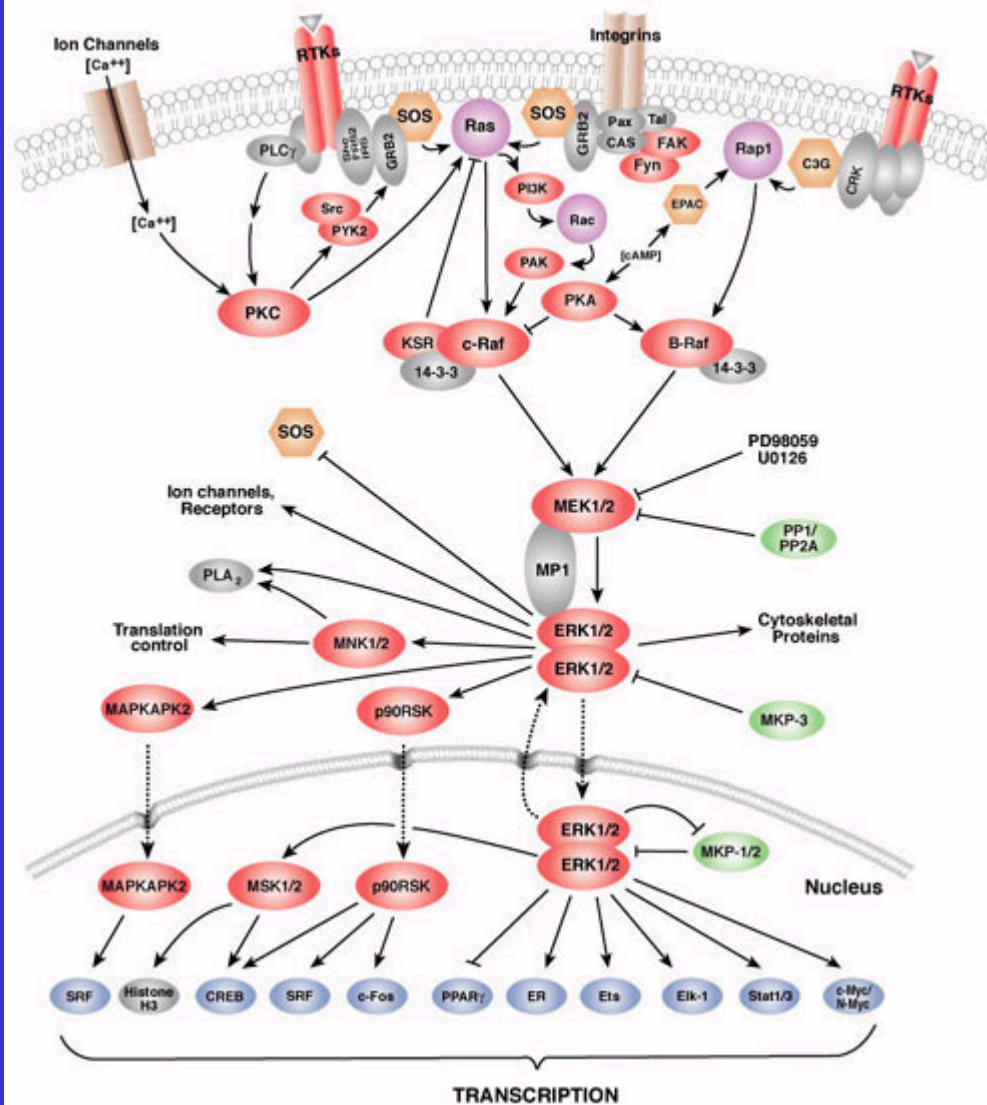
*C-fos*

# Proteínas involucradas en la señalización dependiente de integrinas

A

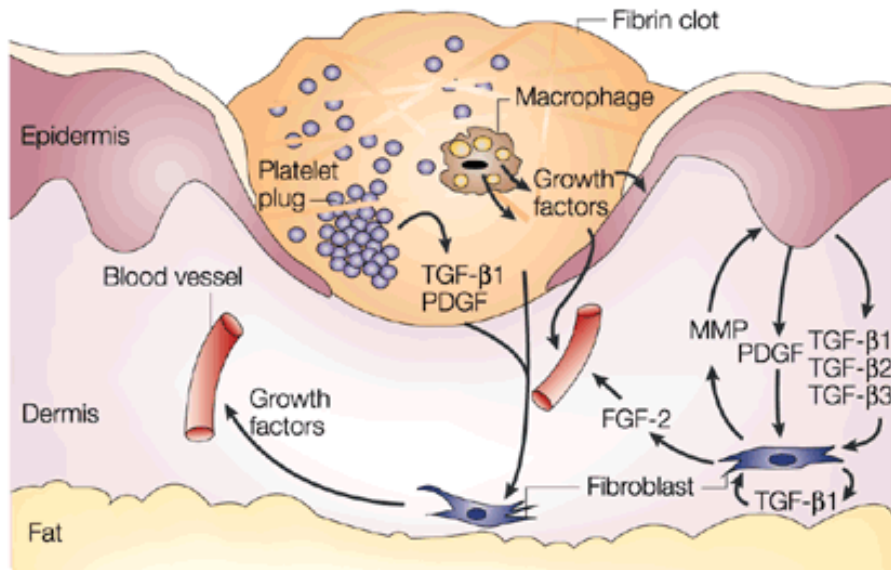


## MAPK/ERK in Growth and Differentiation

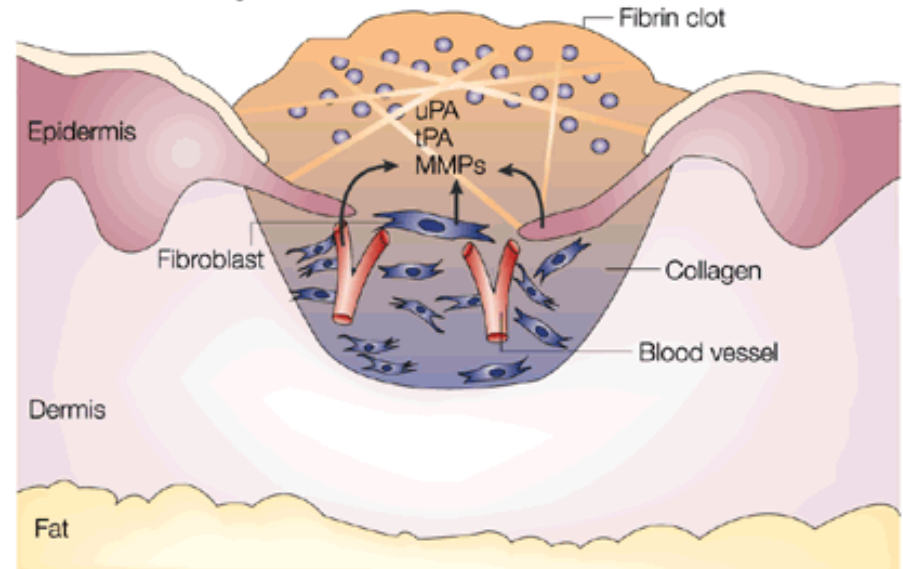


# Reparación y señalización celular

**a Wound healing**



**b Wound healing**





## Inducción de actina muscular alfa

