































































































TABLE 20-4 Cellular Respons	es. to, Hormone-Induced, Rise, in, Inevital, 1.4 (S. 1 ²⁸ in: Virtual Without)	S.Trisuboephare. (Be) and Subscrupen.
Tour	Harmon and Song	A cliffor Registrate
Panercas (annar oclis)	Acetykholine	Secretion of digestive enzymes,
Parolid (silicary gland) Pantreas (g.sells of isles)	Acetylchyline.	Secretion of anythic -
Vascularize stomach smooth	Acchikholine.	- Stalington
Liver	Vappressin	Conversion of Dycogen to Blucose
Blood platelets	Thrombin	Aggregation, shape-change, secretion
Masg cells	Antigen	Histamine secretion
Fibroblasts	Peptide growth factors, such as bombesin and PD6P	 DNA synthesis, cell division
Sear urchin sugs -	Spermitoieou -	Rise of femilization membrane















α Subclass*	Effect	Associated Effector Protein	2nd Messenger
Gs	1	adenylyl cyclase	cAMP
	Ť	Ca ²⁺ channel	Ca ²⁺
	\downarrow	Na ⁺ channel	Change in membrane potent
Gi	Ļ	adenylyl cyclase	cAMP
	†	K ⁺ channel	Change in membrane potent
	Ļ	Ca ²⁺ channel	Ca ²⁺
G_q	†	Phospholipase C	IP ₃ , DAG
Go	†	Phospholipase C	IP ₃ , DAG
	\downarrow	Ca ²⁺ channel	Ca ²⁺
G	†	cGMP phosphodiesterase	cGMP
G _{log}	1	Phospholipase C	IP ₃ , DAG
	Ļ	Adenylyl cyclase	cAMP









Ras

R Oncogenes discovered from murine sarcoma viruses (Harvey virus - H-ras, Kirsten virus - K-ras) and N-ras; R Activated in 10-50% of human tumors (G12V, Q61L, both of which







































<u>Spe</u>	ecificity of SH2 binding to phosphotyrosine	
	80	
	Pawson, 1995	

谢谢!