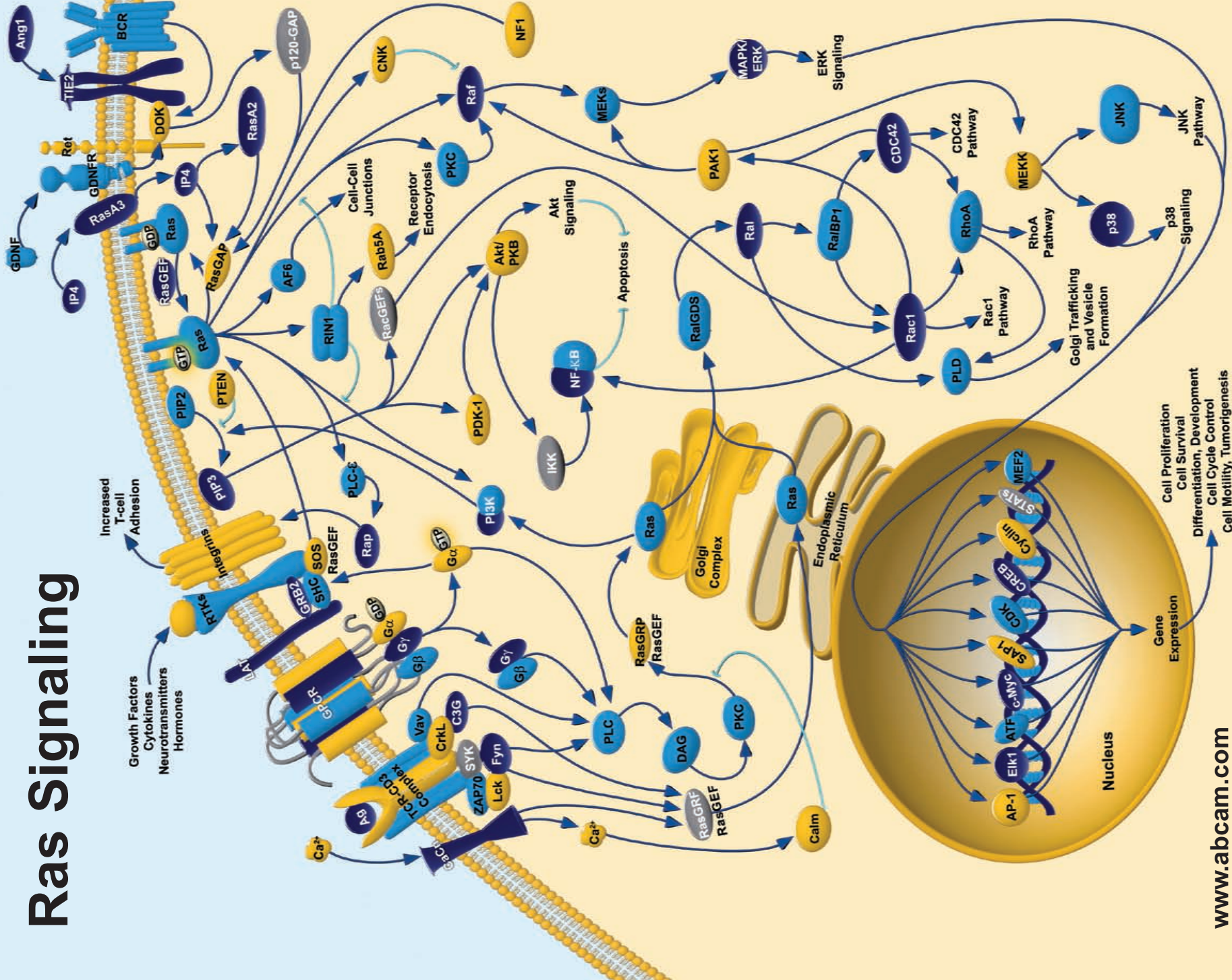


Ras Signaling



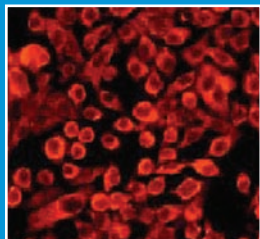
Ras pathway antibodies from Abcam:

See more products at: www.abcam.com

Product	Clonality	Applications	Host	Species Reactivity	Datasheet www.abcam.com/ab...
A RAF	M	WB	Mm	~	54827
cH Ras [Y132]	M	ICC/IF, IP, WB	Rb	Mm, Rt and Hu	32417
MRas	P	WB	Rb	Hu and Mm	26303
p21 Ras [234-4.2]	M	IHC-Fr, IHC-P, IP, WB	Mm	Mm, Rt, Dog and Hu	16795
p21 Ras [F132-62]	M	ICC, ICC/IF, IHC-Fr, IHC-P, IP, WB	Mm	Hu, Mm and Rt	16907
RASSF1a [3F3]	M	ELISA, ICC/IF, WB	Mm	Hu and Mm	23950
RHEB	P	WB	Rb	Hu, Mm and Rt	25873
RhoA (phospho S188)	P	ELISA, WB	Rb	Hu	41435
GRB2 [Y237]	M	ICC/IF, IHC-P, IP, WB	Rb	Hu, Mm and Rt	32037
B Raf [EP152Y]	M	Flow Cyt, IHC-P, IP, WB	Rb	Mm, Rt and Hu	33899
Rho [EP487Y]	M	ICC, IHC-P, IP, WB	Rb	Mm, Rt and Hu	40673
Rho [Y486]	M	ICC/IF, IHC-P, WB	Rb	Hu, Mm and Rt	32046
PAK1 (phospho T212)	P	ELISA, IHC-P	Rb	Hu, Mm and Rt	58540
PAK1 + PAK2 + PAK3 (phospho S141)	P	WB	Rb	Hu	5247
PAK1 + PAK2 + PAK3 (phospho T402)	P	WB	Rb	Hu, Mm and Rt	30577
PAK1 + PAK2 + PAK3 (phospho T423)	P	WB	Rb	Hu	2477
PAK1 [EP656Y]	M	ICC, ICC/IF, IHC-P, IP, WB	Rb	Mm, Rt and Hu	40795
PAK1 [EP795Y]	M	Flow Cyt, ICC/IF, IHC-P, IP, WB	Rb	Mm, Rt and Hu	40852
PAK2	P	Flow Cyt, ICC/IF, IHC-P, IP, WB	Rb	Mm, Rt and Hu	40811
PAK2	P	WB	Rb	Hu, Mm and Rt	19010

Product	Clonality	Applications	Host	Species Reactivity	Datasheet www.abcam.com/ab...
PAK3 [EP797Y]	M	ICC, IHC-P, IP, WB	Rb	Mm, Rt and Hu	40808
PAK4 (phospho S474)	P	IP, WB	Rb	Hu, Mm and Rt	24485
PAK4	P	IHC-P, IP, WB	Rb	Hu, Mm and Rt	19007
PAK5	P	ELISA, IP, WB	Rb	Hu	37753
PAK6	P	ELISA, IP, WB	Rb	Hu	37749
PAK6	P	ELISA, WB	Rb	Hu	41431
PI 3 Kinase catalytic subunit gamma [Y388]	M	Flow Cyt, IP, WB	Rb	Hu	32089
PI 3 Kinase catalytic subunit alpha [EP383Y]	M	ICC/IF, IP, WB	Rb	Hu	40776
PI 3 Kinase Class 2A	P	ELISA, WB	Rb	Hu	5448
PI 3 Kinase Class 3	P	ELISA, WB	Rb	Hu	5451
PI 3 Kinase p110 delta [Y387]	M	ICC/IF, IP, WB	Rb	Hu	32401
PI 3 Kinase p85 (SH2) [0.T.112]	M	IP, WB	Mm	Rt and Hu	33093
PI 3 Kinase p85 alpha [U5]	M	IHC-Fr, IP, WB	Mm	Hu, Mk, Mm and Rt	249
PI 3 Kinase regulatory subunit 4	P	ELISA, WB	Rb	Hu	5459
PI 3 Kinase regulatory subunit 4	P	ELISA, WB	Rb	Hu	5461
PI3 Kinase p110 beta	M	IHC-P, WB	Mm	~	55593
PI3 Kinase p110 beta [Y384]	M	Flow Cyt, IP, WB	Rb	Hu	32569

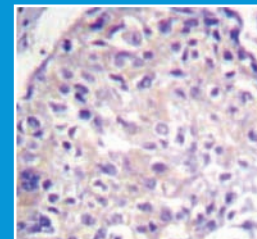
Many more available at www.abcam.com/Ras



GRB2 antibody [Y237] (ab32037)

Clonality	Applications	Host	Species cross reactivity
M	ICC/IF, IHC-P, IP, WB	Rb	Hu, Mm, Rt

Growth factor receptor bound protein 2 (GRB2) is a ubiquitously expressed regulatory subunit of a signaling molecule whose activity is modulated by receptor binding. GRB2 makes associations with a variety of molecules through its SH2 and SH3 domains. In the case of Ras regulation, the SH3 domain binds to SOS, a guanine nucleotide exchange factor for Ras proteins. The image shows immunofluorescent analysis of GRB2 expression in HeLa cells using ab32037.



PAK1 (phospho T212) antibody (ab58540)

Clonality	Applications	Host	Species cross reactivity
P	ELISA, IHC-P	Rb	Hu, Mm, rt

The serine/threonine kinase PAK1 is an effector of the small Rho GTPases, Rac1 and Cdc42. Pak1 complexes specifically with Rac1 and Cdc42 in their active GTP bound state, inhibiting their intrinsic GTPase activity, leading to their autophosphorylation. PAK1 plays an important role in the regulation of cell morphogenesis, motility, mitosis and angiogenesis. It has been implicated in the progression of many cancers. The image shows PAK1 expression in human breast carcinoma by immunohistochemistry, using ab58540.

