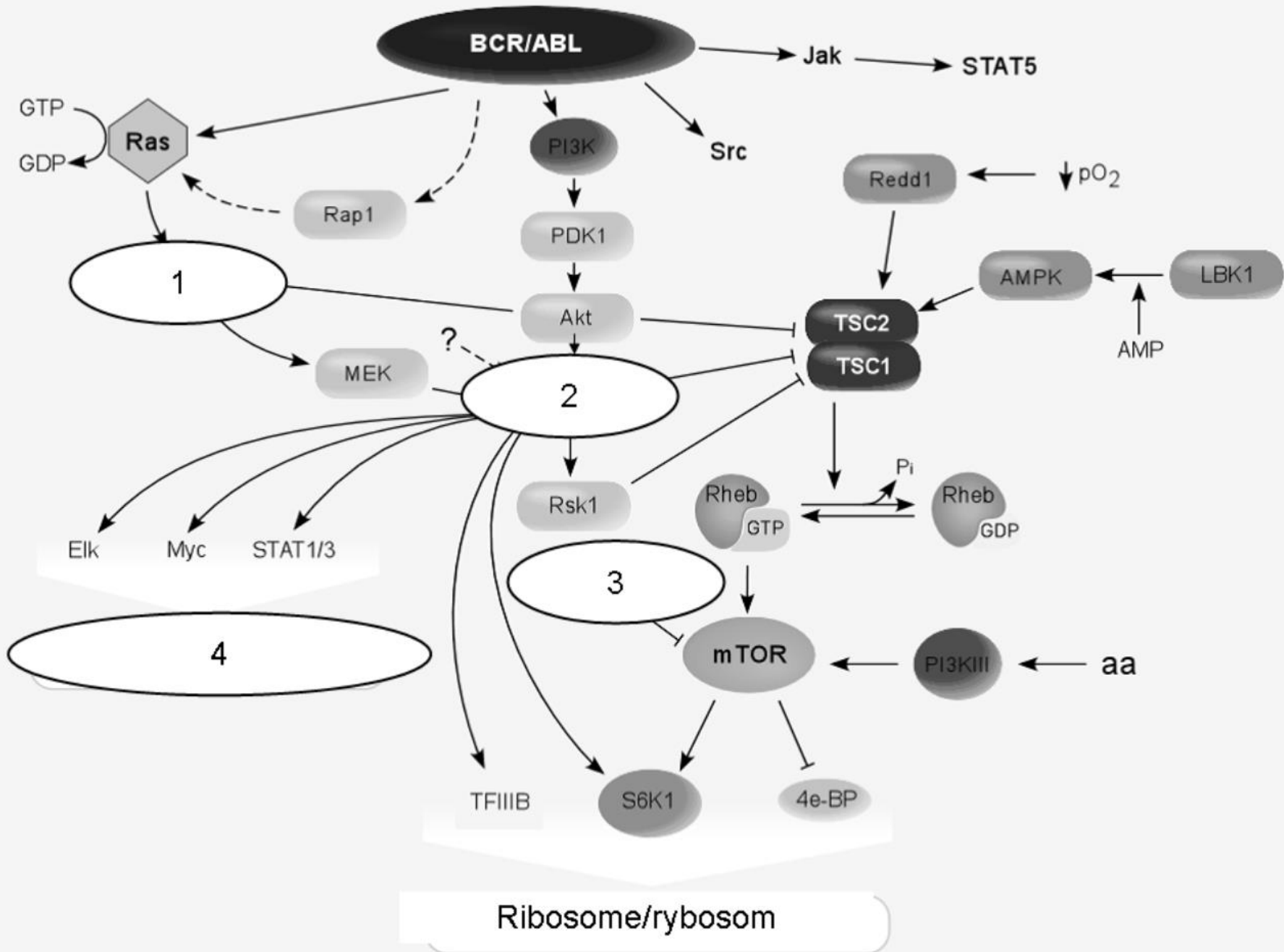


Syndrome	Gene	Function	Malignancy
	BRCA1		
Ataxia teleangiectasia			Various
FAP			Colon
Lynch Syndrome			
	NF-1		Various
Nijmegen			NHL, ALL
	XPA		
		E2F regulation	retinoblastoma
		Induction of p21	Various
Gastric cancer	P16		

MSH1				
NBS1	P53 activation	Double strand DNA repair		Familiar Brest Ca.
APC	Li fraumeni	Retinoblastoma		Xeroderma pigmentosum
TP53	RAS inhibition	DNA dimmers repair		B-catenin level
ATM	pRB phosphorylation	Mismatch DNA repair		Double strand DNA repair
RB	Stomach	Skin	Colon	Breast
				Recklinghausen disease



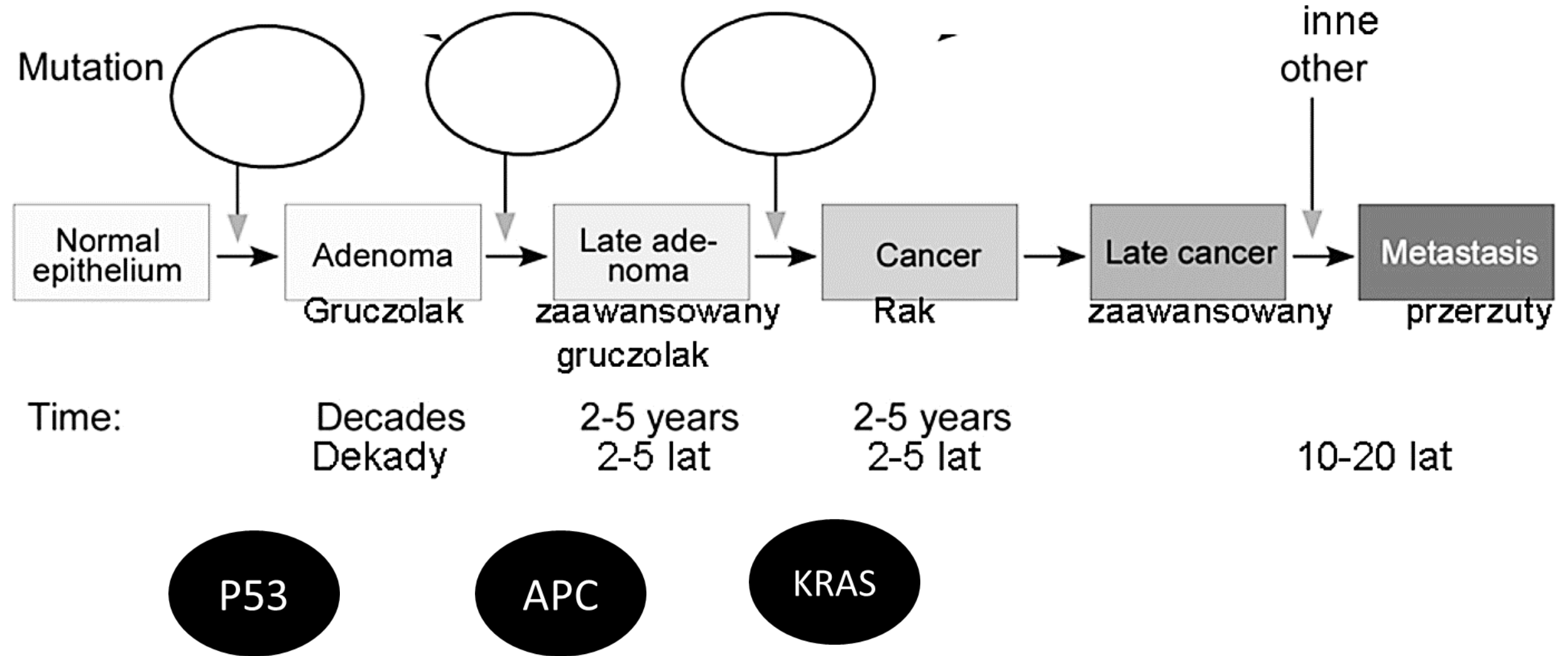
Transcription Factors

Rapamycin

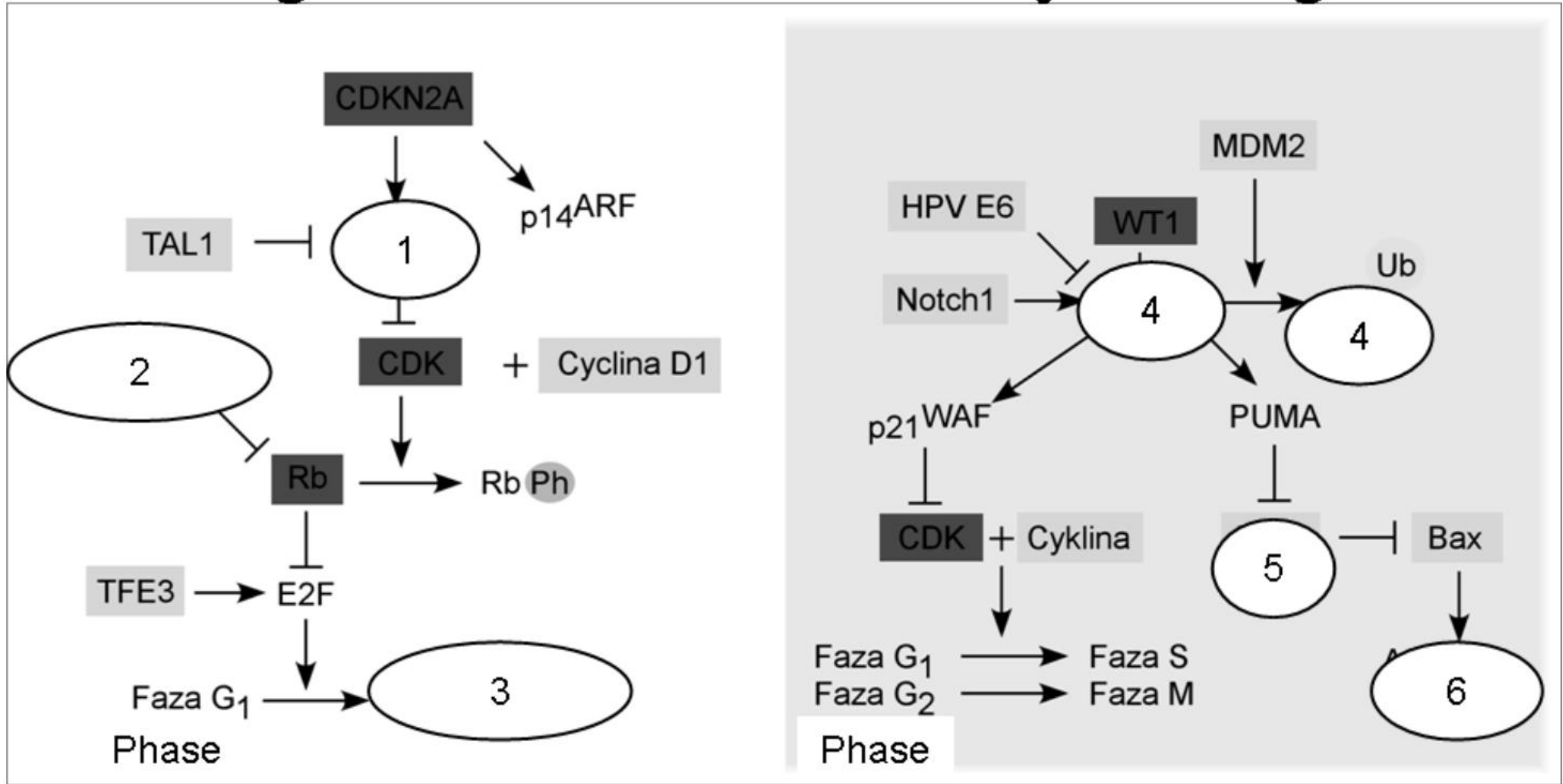
bRAF

ERK

Adenocarcinoma colii



ONCOGENIC VIRUSES HPV



p53

apop
tosis

S

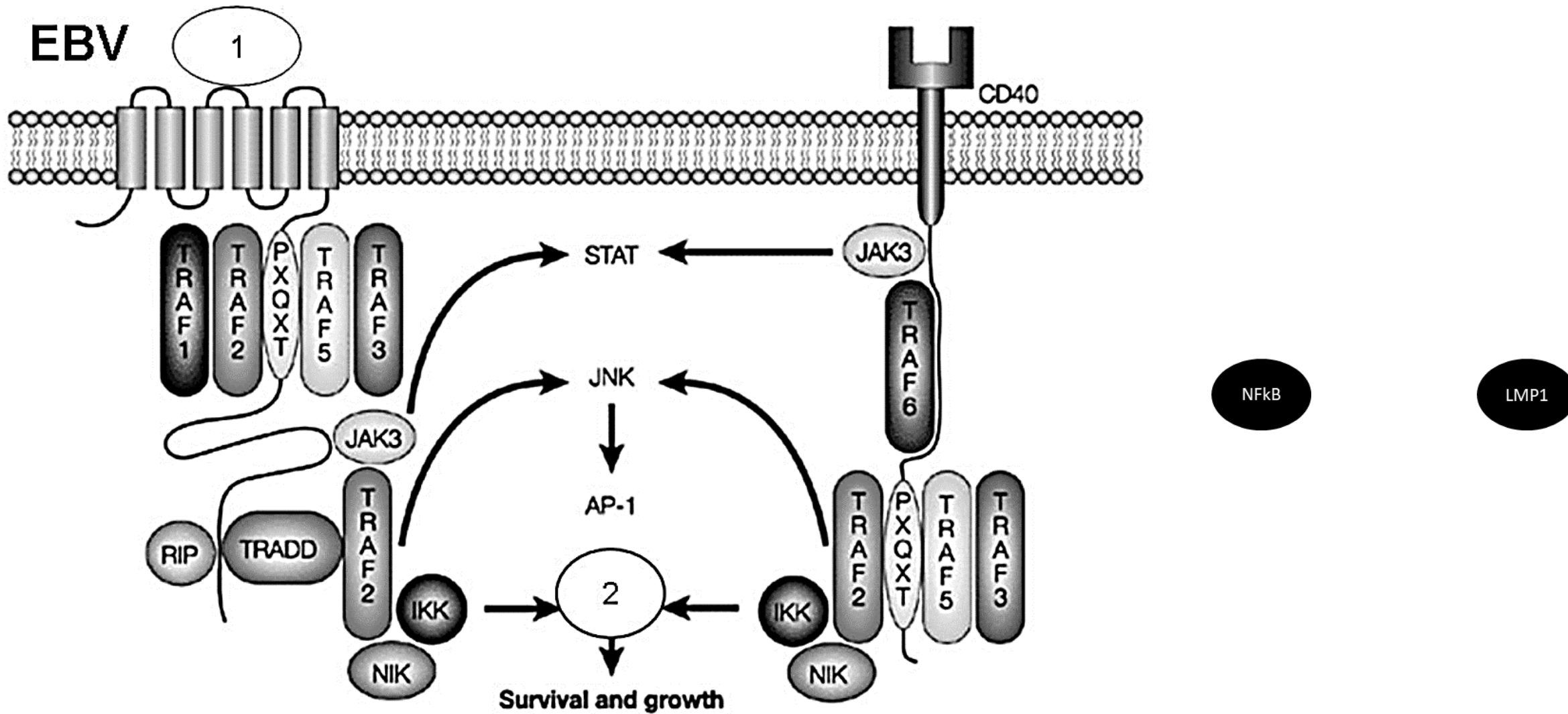
p53

p16

Bcl-2

E7

ONCOGENIC VIRUSES EBV



Infection by	Type	Oncogenic product	Maligancy
	Virus DNA		Burkitts Lymphoma Naso-pharyngeal cancer
	Virus DNA	LANA	Kaposi Sarcoma
Human Papiloma Virus HPV	Virus DNA		Cervix, Penis, Larynx
	Virus RNA	TAX	Tcell Leukemia
Helicobacter pylori		Cag A	
HBV	Virus DNA	HBV X	

EBV

E6 E7

LMP1

BACTERIA

HLTV

Kaposi Sarcoma Virus

Stomach cancer

Liver ca.