

PATHWAY

MAPK(JNK/p38 MAPK)

热门信号通路产品

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MAPK (JNK/p38 MAPK) 信号通路关键路径

MAPK (Mitogen-Activated Protein Kinase) 是一类以丝氨酸/苏氨酸/脯氨酸 (Serine/Threonine/Proline) 残基为底物的激酶。它们在细胞内广泛参与调控多种生物学过程, 包括细胞增殖、细胞分化、细胞运动、细胞应激反应等。在细胞生理过程中, MAPK 信号通路有多个分支, 其中最常研究的是 ERK (Extracellular Signal-Regulated Kinase)、JNK (c-Jun N-terminal Kinase) 和 p38 MAPK。每个分支都在不同的细胞生理过程中发挥重要作用。

JNK

JNK 通路, 也称为 c-Jun N-末端激酶 (c-Jun N-terminal kinase) 通路, 是细胞信号转导途径中的一条重要信号通路。JNK 通路中的关键组分是 JNK 激酶 (c-Jun N-terminal kinase), 它属于 MAPK 激酶家族 (Mitogen-Activated Protein Kinases), 主要包括 JNK1、JNK2 和 JNK3 三个亚型。JNK 激酶可以被多种外界刺激激活, 包括细胞应激 (如氧化应激、热休克等)、炎症因子、细胞因子等。当 JNK 激酶被激活后, 它可以通过磷酸化转录因子 c-Jun, 并启动一系列下游信号传递路径, 如启动转录因子 AP-1 的活性, 改变细胞周期、细胞凋亡、细胞分化、炎症反应等生物过程。JNK 通路在多种生理和病理过程中起着重要的调控作用, 包括细胞应激响应、炎症反应、肿瘤发生、神经退行性疾病等。

p38 MAPK

p38 通路, 也称为 p38 MAPK 信号传导通路, 是一种由 p38 MAPK 激活的复杂细胞内信号传导级联反应。p38 通路涉及一系列的磷酸化事件和下游靶点的激活, 导致各种细胞反应的发生。p38 MAPK 是一个蛋白激酶家族, 在人体中有四种常见亚型, 分别为 p38 α (MAPK14), p38 β (MAPK11), p38 γ (MAPK12) 和 p38 δ (MAPK13)。

p38 通路的磷酸化作用十分广泛, 据估计它们可能各自具有大约 200 至 300 个底物, 是蛋白质周转的重要调节因子。p38 MAPK 的下游 MSK1 和 MSK2 可以直接磷酸化和激活 CREB1、ATF1 等转录因子, 也可以磷酸化组蛋白 H3 和核小体蛋白 HMG1。MSK1/2 通过诱导染色质重塑或招募转录机制, 在快速诱导即时早期基因以响应压力或有丝分裂刺激的方面起重要作用。此外, 通过激活 MAPKAPK2/3, p38 MAPK 参与了基因表达转录后水平的调控, 这对翻译过程中 mRNA 的延伸是必不可少的。

MAPK (JNK/p38 MAPK) 通路 · 相关靶标

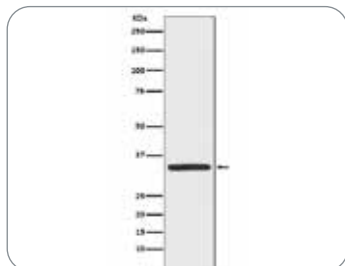


靶标	产品货号	产品名称	反应种属	应用
ASK1	R23540	ASK1 Rabbit mAb	Human	WB
	380952	ASK1 Rabbit pAb	Human, Mouse	WB, IHC-P, ICC/IF, FC
	320030	Phospho-ASK1 (Ser966) Rabbit pAb	Human, Mouse, Rat	WB, IHC-P
ATF2	R380691	ATF2 Rabbit mAb	Human	WB, IHC-P, ICC/IF, IP
	381183	Phospho-ATF2 (Thr71) Rabbit pAb	Human	WB, ICC/IF, IP
	342583	c Jun Rabbit pAb	Human, Mouse, Rat	ICC/IF, WB, IHC-F, IHC-P, IP, ELISA
c-Jun	200607	c Jun (3B3) Mouse mAb	Transfected	WB
	R22955	Phospho-c Jun (Ser63) Rabbit mAb	Human, Mouse, Rat	WB, IHC-P
	310011	Phospho-c Jun (Ser73) Rabbit pAb	Human, Mouse, Rat	WB, IHC-P
Daxx	R26669	Daxx Rabbit mAb	Human	WB, ICC/IF
Hsp27	R24628	Hsp27 Rabbit mAb	Human, Mouse	WB, IHC-F, IHC-P, ICC/IF, IP
	200778	Hsp27 (7E5) Mouse mAb	Human, Monkey	WB, ICC/IF
GCK	822410	GCK Rabbit pAb	Human, Mouse, Rat	WB, IHC-P
	R24780	JNK Rabbit mAb	Mouse, Rat	WB, ICC/IF, IP
	201001	JNK1 (1A4) Mouse mAb	Human, Mouse, Rat	WB, ICC/IF
JNK	R26311	Phospho-JNK1 (Thr183/Tyr185) Rabbit mAb	Human	WB, IP
	R24781	JNK2 Rabbit mAb	Mouse, Rat	WB, IHC-P, IP

靶标	产品货号	产品名称	反应种属	应用
MAPKAPK2	R27028	MAPKAP Kinase 2 Rabbit mAb	Human,Mouse,Rat	WB,IP
	161888	MAPKAP Kinase 2 Rabbit pAb	Human,Mouse	WB,IHC-P
MyD88	340629	MyD88 Rabbit pAb	Human,Mouse,Rat	ICC/IF,WB,IHC-F,IHC-P,ELISA
SEK1/MKK4	220116	MEK4 Mouse mAb	Human	IHC-P
	R26320	Phospho-MEK4 (Ser80) Rabbit mAb	Human	WB,IP
TAK1	200993	TAK1 (3G1) Mouse mAb	Human,Mouse,Rat,Monkey	WB
	R25850	TAK1 Rabbit mAb	Human	WB,IHC-F,IHC-P,ICC/IF
	R25849	Phospho-TAK1 (Ser439) Rabbit mAb	Human,Mouse,Rat	WB,ICC/IF,IP
TRADD	R382963	TRADD Rabbit mAb	Human,Mouse,Rat	WB,IHC-P,ICC/IF,IP
TRIF	R25980	TRIF Rabbit mAb		WB,IP
	R25239	p38 Rabbit mAb	Human,Rat,Hamster	WB
	200782	p38 (5A1) Mouse mAb	Human,Mouse,Rat,Monkey	WB
	310091	Phospho-p38 (Thr180/Tyr182) Rabbit pAb	Human,Mouse,Rat	WB
p38 MAPK	310069	Phospho-p38 (Tyr182) Rabbit pAb	Human,Mouse,Rat	WB,IHC-P
	310068	Phospho-p38 (Thr180) Rabbit pAb	Human,Mouse,Rat	WB,IHC-P

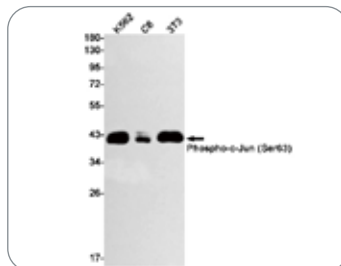
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#R382963
TRADD Rabbit mAb



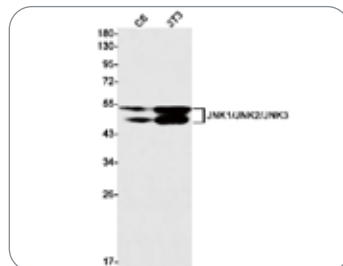
Western blot analysis of TRADD in HeLa lysates using TRADD antibody.

#R22955
Phospho-c-Jun (Ser63) Rabbit mAb



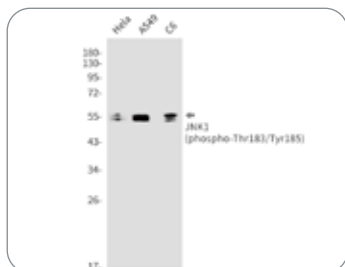
Western blot analysis of Phospho-c-Jun (Ser63) in K562, C6, 3T3 lysates using Phospho-c-Jun (Ser63) antibody.

#R24780
JNK Rabbit mAb



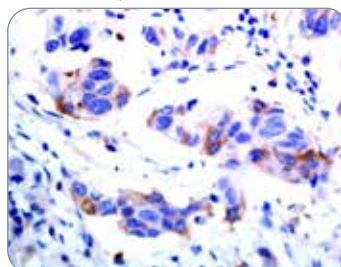
Western blot analysis of JNK1/2/3 in C6, 3T3 lysates using JNK antibody.

#R26311
Phospho-JNK1 (Thr183/Tyr185) Rabbit mAb



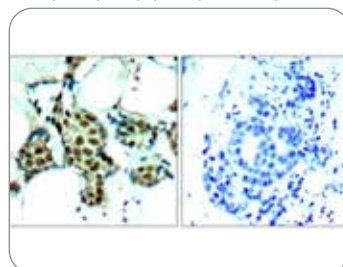
Western blot analysis of Phospho-JNK1 (Thr183/Tyr185) in HeLa, A549, C6 lysates using Phospho-JNK1 (Thr183/Tyr185) antibody.

#380952
ASK1 Rabbit pAb



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using ASK1 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

#310069
Phospho-p38 (Tyr182) Rabbit pAb



Immunohistochemistry analysis of paraffin-embedded Human breast carcinoma tissue using P38 MAPK (Phospho-Tyr182) antibody (left) or the same antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval. Sample with blocking peptide on the right.

