

分类	靶标	产品货号	产品名称	反应种属	应用
转录因子	NF-κB	R25150	NF-KB p65 Rabbit mAb	Human,Rat	WB,ICC/IF
		380172	NF-KB p65 Rabbit pAb	Human,Mouse	WB,IHC-P,ICC/IF,IP,FC
		310052	Phospho-NF-KB p65 (Ser529) Rabbit pAb	Human,Mouse,Rat	WB,IHC-P,ICC/IF
		310013	Phospho-NF-KB p65 (Ser536) Rabbit pAb	Human,Mouse,Rat	WB,IHC-P,ICC/IF
调节因子	ULK1	381887	ULK1 Rabbit pAb	Human,Mouse,Rat	WB,IHC-P,ICC/IF
	TRIM21	201301	TRIM21 (5B9) Mouse mAb	Human	WB
		R25981	TRIM21 Rabbit mAb	Human	WB
	TREX1	R22686	TREX1 Rabbit mAb	Human	WB,IHC-F,IHC-P,ICC/IF
	COX5B	R23972	COX5B Rabbit mAb	Human,Mouse,Rat	WB,IHC-F,IHC-P,ICC/IF,IP
	SMURF2	382217	SMURF2 Rabbit pAb	Human,Mouse,Rat	WB
	PCBP1	389370	PCBP1 Rabbit pAb	Human,Mouse,Rat	WB,IP
	PCBP2	R25290	PCBP2 Rabbit mAb	Mouse,Rat	WB,IP

部分产品引用文献

#380803 TRAF6 Rabbit pAb

Cellular & Molecular Immunology. IF: 8.48

The SUMOylation of TAB2 mediated by TRIM60 inhibits MAPK/NF-κB activation and the innate immune response.

#380172 NF-KB p65 Rabbit pAb

#310013 Phospho-NF-KB p65 (Ser536) Rabbit pAb

BIOMEDICINE & PHARMACOTHERAPY. IF: 7.42

Dioscin alleviates Alzheimer's disease through regulating RAGE/NOX4 mediated oxidative stress and inflammation.

#310052 Phospho-NF kappa B p65 (Ser529) Rabbit pAb

Environmental Pollution. IF: 6.79

Exposure to environmental level phenanthrene induces a NASH-like phenotype in new born rat.

#380172 NF kappa B p65 Rabbit pAb

Oxidative Medicine and Cellular Longevity. IF: 6.54

Tissue Renin-Angiotensin System (tRAS) Induce Intervertebral Disc Degeneration by Activating Oxidative Stress and Inflammatory Reaction.

#380172 NF kappa B p65 Rabbit pAb

Oxidative Medicine and Cellular Longevity. IF: 6.54

Ulinastatin Ameliorates IL-1β-Induced Cell Dysfunction in Human Nucleus Pulposus Cells via Nrf2/NF-κB Pathway.

#381394 TRAF2 Rabbit pAb

Cell Death & Disease. IF: 5.96

Stress-induced RNASET2 overexpression mediates melanocyte apoptosis via the TRAF2 pathway in vitro.

#380172 NF kappa B p65 Rabbit pAb

Bioorganic Chemistry. IF: 5.28

Synthesis and evaluation of the anti-inflammatory activity of novel 8-quinolinesulfonamide derivatives as TLR4/MD-2 inhibitors with efficacy in adjuvant-induced arthritis.

#530546 Phospho-IKK alpha/beta (Ser176/180) Rabbit pAb

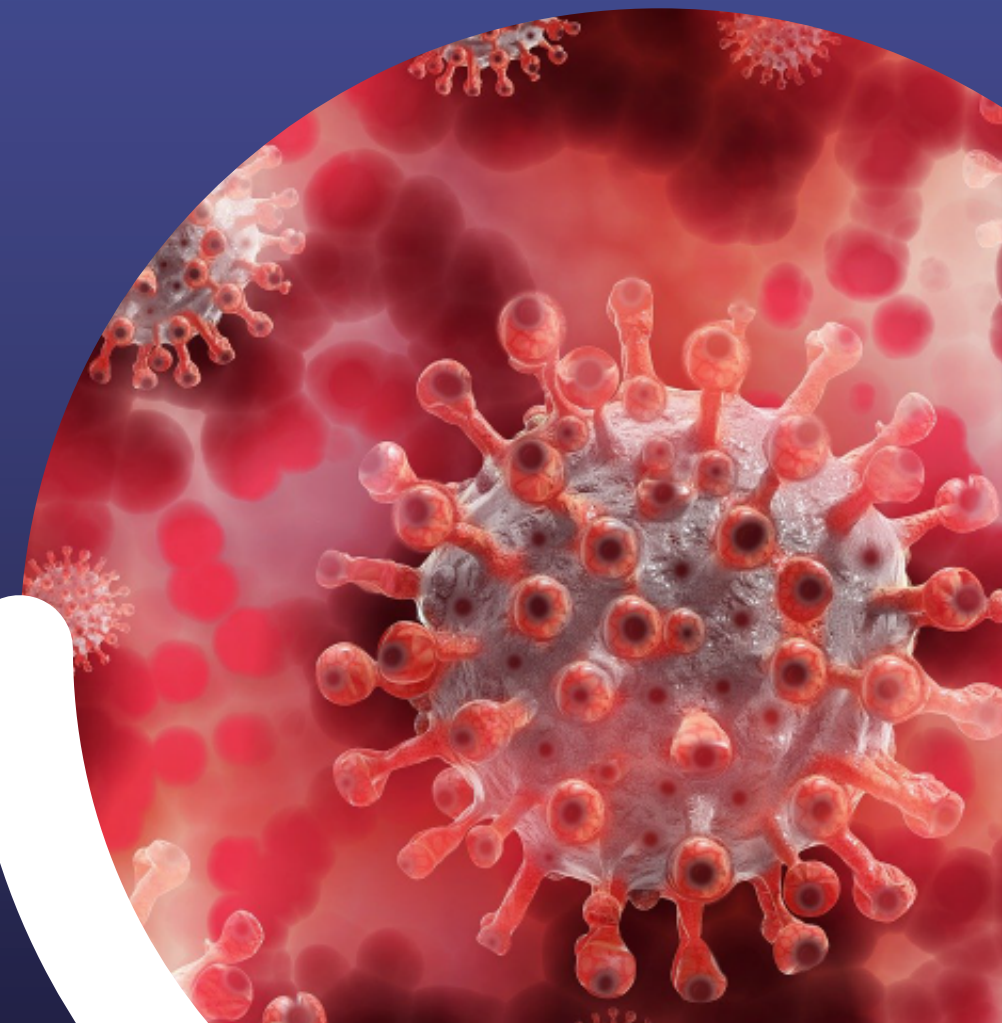
Oxidative Medicine and Cellular Longevity. IF: 5.08

Aloin Preconditioning Attenuates Hepatic Ischemia/Reperfusion Injury via Inhibiting TLR4/MyD88/NF-κB Signal Pathway In Vivo and In Vitro.

ANTIBODIES

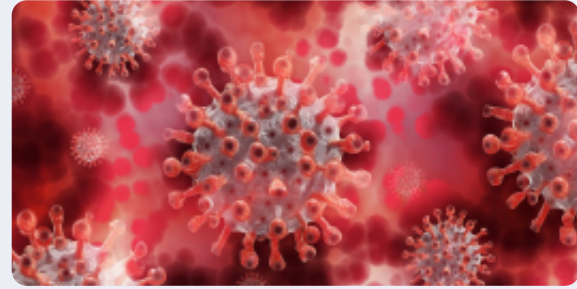
Antiviral Innate Immunity

抗病毒天然免疫



抗病毒天然免疫

天然免疫是保护机体抵御病原微生物入侵的第一道生理防线。对于病毒的入侵，生命体早已进化出一套完整的防御系统，其中 RIG-I-MAVS 和 cGAS-STING 介导的信号通路，分别在对抗 DNA 和 RNA 病毒的自然免疫应答过程中扮演着重要角色。

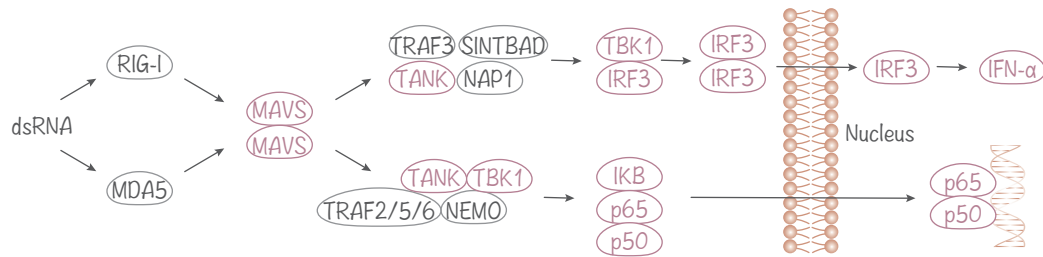


© RIG-I-MAVS

在 RIG-I-MAVS 通路中，RIG-I 样受体（如 RIG-I、MDA5 和 DHX58）是检测病毒 RNA 的一系列胞浆 RNA 解旋酶。RIG-I 和 MDA5 表现出不同的配体特异性，并对不同的病毒作出反应。DHX58 能够促进或拮抗 MDA5 和 RIG-I 对病毒 RNA 的识别。

当 RIG-I 或 MDA5 识别到病毒 RNA 后会迅速与 MAVS 结合，诱导 MAVS 形成二聚体。MAVS 随即招募 TRAF2、TRAF3、TRAF5、TRAF6、CARD9 和 TRADD 等分子形成线粒体外膜，组装信号复合物平台。平台继续招募更多功能蛋白如 TANK 和 TAB1，最终 IRF3、IRF7 和 NF-κB 被磷酸化激活，诱导干扰素和促炎细胞因子的表达。

目前，判断是否发生抗病毒免疫的常见临床手段通常为：测定干扰素或促炎细胞因子水平。这些因子除 RIG-I 和 MDA5 外，还包含一些常见的 RNA 感受器，如 ZBP1、OAS1 和 RNaseL 等。



© cGAS-STING

cGAS 是一种胞浆 DNA 感受器，可以识别病毒 DNA 并可被激活。活化后的 cGAS 构象发生改变，形成环鸟苷酸 (cGAMP) 小分子并与内质网接头蛋白 STING 相结合。STING-cGAMP 复合物被激活后，将开始招募 TBK1 并向高尔基体移位，进而引起 IRF3、NF-κB 和 STAT6 的磷酸化以及核转位，最终诱导干扰素和其他炎症相关基因的表达增加。

这期间还涉及到多种蛋白的修饰，如参与磷酸化调节的激酶 ULK1/ATG1 和磷酸酶 PPM1A；参与泛素化调节的 E3 连接酶 RNF5、TRIM21、TRIM30α、TRIM32、TRIM56、AMFR 和 INSIG1；参与棕榈酰化调节的棕榈酰转移酶 DHHC3、DHHC7 和 DHHC15 等。



抗病毒天然免疫是一个极其复杂的过程，RIG-I-MAVS 信号通路会与 cGAS-STING、炎症小体和自噬等多条信号通路发生串话。除了与 RIG-I-MAVS，cGAS-STING 信号通路还会与炎症小体、自噬、TLR 和 JAK-STAT 等多条信号通路发生串话，这进一步增强了抗病毒天然免疫调控和功能的复杂性。



分类	产品名称	应用
RNA感受器	RIG-I 381991 DDX58 Rabbit pAb Human WB,IP	
	MDA5 382114 MDA5 Rabbit pAb Human WB,ICC/IF	
	DHX58 125968 DHX58 Rabbit pAb Human,Rat WB,IHC-P	
	RNase L 389012 RNase L Rabbit pAb Human WB	
DNA感受器	cGAS 863570 cGAS Rabbit pAb Human WB,IHC-P	
	ZBP1 856002 ZBP1 Rabbit pAb Human WB	
信号转导分子	MAVS 161894 MAVS Rabbit pAb Human,Mouse WB,IHC-P	
	STING 300415 Transmembrane Protein 173 Rabbit pAb Human,Mouse WB	
	STING R25931 Transmembrane Protein 173 Rabbit mAb Human,Rat WB,IHC-P	
	TRAF2 381394 TRAF2 Rabbit pAb Human,Mouse,Rat WB,IHC-P,ICC/IF,IP,FC	
	TRAF3 860776 TRAF3 Rabbit pAb Human WB,IHC-P	
	TRAF6 R25965 TRAF6 Rabbit mAb Human,Rat WB	
	TRAF6 380803 TRAF6 Rabbit pAb Human,Mouse,Rat WB,IHC-P,ICC/IF	
	TRADD 382963 TRADD Rabbit pAb Human,Mouse,Rat WB,IHC-P,ICC/IF,IP	
	TBK1 380780 TBK1 Rabbit pAb Human,Mouse,Rat WB,IHC-P,ICC/IF	
	TBK1 R22790 TBK1 Rabbit mAb Human,Mouse,Rat,Hamster WB	
	IKK 381216 IKK alpha/beta Rabbit pAb Human,Mouse,Rat WB,ICC/IF,IP	
	IKK 381289 IKK alpha Rabbit pAb Human,Mouse,Rat WB,IHC-P,ICC/IF,IP,FC	
IKK R24676 IKK beta Rabbit mAb Human,Mouse,Rat WB,ICC/IF		
IKK 530546 Phospho-IKK alpha/beta (Ser176/180) Rabbit pAb Human,Mouse WB		
转录因子	IRF3 R26922 IRF3 Rabbit mAb Human WB,IHC-P,IP	
	IRF3 240072 [KO] IRF3 Mouse mAb Human,Monkey WB,IHC-P	
	IRF3 381561 Phospho-IRF3 (Ser386) Rabbit pAb Human WB,ICC/IF	
	IRF7 381201 IRF7 Rabbit pAb Human,Mouse,Rat WB,IHC-P,ICC/IF,IP,FC	
STAT6	IRF7 R26145 IRF7 Rabbit mAb Human,Rat WB,IHC-F,IHC-P,ICC/IF,IP	
	STAT6 R25811 STAT6 Rabbit mAb Human,Mouse,Rat,Hamster WB	
STAT6 R50169 STAT6 Rabbit mAb Human IHC-P		