



细胞凋亡 APOPTOSIS

细胞凋亡是在生理或病理条件下，机体为更好地适应生存环境，由基因控制的细胞自主有序的死亡。它与细胞增殖共同维持机体正常生长发育和内环境的稳定。细胞凋亡涉及一系列基因的激活、表达以及调控等作用。在凋亡的发生过程中，Bcl-2家族蛋白起着门控开关的关键性作用。抗凋亡成员蛋白和促凋亡成员蛋白在细胞死亡信号检查点之间的平衡，决定了细胞的生存或凋亡。另外Caspase家族在凋亡执行过程中起着至关重要的作用，而且细胞凋亡的过程实际上是Caspase被活化并发生凋亡蛋白酶的级联反应。凋亡现象普遍存在于各种生物体内，如胚胎发育、形态发生、组织内稳态、机体免疫等。凋亡异常将会导致癌变或者慢性退行性疾病，所以细胞凋亡一直是备受关注的研究热点。

明星产品

A0215 Caspase-8 Rabbit pAb

Applications:WB,IHC,IF
Reactivity:Human,Mouse,Rat

Western blot analysis of extracts of various cell lines, using Caspase-8 antibody (A0215) at 1:1000 dilution.

A19693 Bcl-2 Rabbit mAb

Applications:WB, IHC, IP
Reactivity:Human,Mouse

Western blot analysis of extracts of various cell lines, using Bcl-2 antibody (A19693) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) at 1:10000 dilution.

A19684 [KO Validated] Bax Rabbit mAb

Applications:WB, IHC, IF
Reactivity:Human, Mouse, Rat

Immunofluorescence analysis of L929 cells using Bax antibody (A19684). Blue: DAPI for nuclear staining.

A5761 p53 Rabbit pAb

Applications:WB, IHC, IP, ChIP
Reactivity:Human, Mouse, Rat

Chromatin immunoprecipitation analysis of extracts of 293T cells, using p53 antibody (A5761) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

细胞凋亡精选研究产品

研究靶点	产品货号	产品名称	应用范围	反应种属
Bcl-2	A19693	Bcl-2 Rabbit mAb	WB, IHC, IP	Human, Mouse
	AP0575	Phospho-Bcl-2-S70 Rabbit pAb	WB, IF	Human, Rat
Bax	A19684	[KO Validated] Bax Rabbit mAb	WB, IHC, IF	Human, Mouse, Rat
Bak	A10754	BAK1 Rabbit mAb	WB	Human
	A18002	[KO Validated] BAK1 Rabbit pAb	WB, IHC	Human, Rat
Caspase-3	A11021	Active Caspase-3 Rabbit mAb	WB	Human
	A19664	Caspase-3 p12 Rabbit mAb	WB, IHC, IF	Human, Mouse, Rat
	A19654	[KO Validated] active + pro Caspase-3 Rabbit mAb	WB, IF	Human, Mouse, Rat
Caspase-8	A19549	[KO Validated] Caspase-8 Rabbit mAb	WB	Human
	A0215	Caspase-8 Rabbit pAb	WB, IHC, IF	Human, Mouse, Rat
Cytochrome C	A4912	Cytochrome C Rabbit mAb	WB, IHC	Human, Mouse, Rat
	A13430	Cytochrome c Rabbit pAb	WB, IHC, IF	Human, Mouse, Rat
CHOP	A0221	DDIT3 / CHOP Rabbit pAb	WB,IHC,IF	Human,Mouse,Rat
JNK	A4867	JNK1/JNK2/JNK3 Rabbit mAb	WB, IF	Human,Mouse,Rat
	AP0631	Phospho-JNK1/2/3-T183/T183/T221 Rabbit mAb	WB, IHC, IF	Human,Mouse,Rat
p53	A19585	[KO Validated] p53 Rabbit mAb	WB	Human
	A5761	p53 Rabbit pAb	WB,IP,IHC,ChIP	Human,Mouse,Rat
Puma	A3752	PUMA Rabbit mAb	WB, IHC, IF	Human, Mouse, Rat

细胞自噬 AUTOPHAGY

自噬是真核生物中一种进化上保守的细胞内降解系统，它响应各种胁迫和刺激并维持细胞、组织和生物体的平衡，它与许多生理病理过程关联，如发育、分化、免疫、感染、炎症、肿瘤、心血管病、神经退行性疾病等。自噬信号通路的关键靶点包括自噬起始复合体组分（如ULK1、Beclin-1）、自噬泡延伸相关分子（如ATG5、ATG12）、自噬体形成标志物LC3、以及与LC3相互作用的多种转运受体（如p62、BNIP3等）。

A19665 [KO Validated] LC3B Rabbit mAb

Applications:WB,IHC,IF
Reactivity:Human,Mouse,Rat

Western blot analysis of extracts of various cell lines, using LC3B antibody (A19665) at 1:1000 dilution.

A19677 [KO Validated] ATG5 Rabbit mAb

Applications:WB,IHC
Reactivity:Human,Mouse,Rat

Western blot analysis of extracts from normal (control) and ATG5 knockout (KO) 293T cells, using ATG5 antibody (A19677) at 1:1000 dilution.

A7353 [KO Validated] Beclin 1 Rabbit pAb

Applications:WB,IHC,IF,IP Reactivity:Human,Mouse,Rat

Western blot analysis of extracts of various cell lines, using Beclin 1 antibody (A7353) at 1:1000 dilution.

Immunofluorescence analysis of HeLa cells using Beclin 1 antibody (A7353) at dilution of 1:100 (40x lens).

A19700 [KO Validated] SQSTM1 / p62 Rabbit mAb

Applications:WB,IHC,IF,IP Reactivity:Human,Mouse,Rat

Western blot analysis of extracts from normal (control) and SQSTM1 / p62 knockout (KO) 293T cells, using SQSTM1 / p62 antibody (A19700) at 1:1000 dilution.

Immunofluorescence analysis of HeLa cells using SQSTM1 / p62 antibody (A19700) at dilution of 1:100. Blue: DAPI for nuclear staining.

A8529 ULK1 Rabbit pAb

Applications:WB,IHC,IF Reactivity:Human,Mouse,Rat

Immunohistochemistry of paraffin-embedded mouse liver using ULK1 antibody (A8529) at dilution of 1:100 (40x lens).

Immunofluorescence analysis of L929 cells using ULK1 antibody (A8529) at dilution of 1:100. Blue: DAPI for nuclear staining.

细胞自噬精选研究产品

研究靶点	产品货号	产品名称	应用范围	反应种属
AMPK	A17290	PRKAA1/PRKAA2 Polyclonal Antibody	WB, IF	Human,Mouse,Rat
p-AMPK	AP0116	Phospho-PRKAA1-T183/PRKAA2-T172 pAb	WB,IHC,IP	Human,Mouse,Rat
ATG5	A19677	[KO Validated] ATG5 Rabbit mAb	WB, IHC	Human, Mouse, Rat
	A0203	ATG5 Rabbit pAb	WB, IHC, IF	Human, Mouse, Rat
ATG12	A19610	ATG12 Rabbit mAb	WB	Human, Mouse
Beclin 1	A7353	[KO Validated] Beclin 1 Rabbit pAb	WB, IHC, IF, IP	Human, Mouse, Rat
BNIP3	A19593	BNIP3 Rabbit mAb	WB, IHC	Human, Mouse, Rat
	A5683	BNIP3 Rabbit pAb	WB, IHC, IF	Human, Mouse, Rat
BNIP3L	A6283	BNIP3L Rabbit pAb	WB, IHC	Human, Mouse, Rat
LC3	A19665	[KO Validated] LC3B Rabbit mAb	WB, IHC, IF	Human, Mouse, Rat
	A5618	LC3A/LC3B Rabbit pAb	WB, IHC, IF	Human, Mouse, Rat
mTOR	A2445	mTOR Polyclonal Antibody	WB,IF,IP	Human,Mouse,Rat
p-mTOR	AP0115	Phospho-mTOR-S2448 Rabbit mAb	WB	Human,Mouse
NBR1	A3949	NBR1 Rabbit pAb	WB, IHC, IF, IP	Human, Mouse, Rat
p62	A19700	[KO Validated] SQSTM1 / p62 Rabbit mAb	WB, IHC, IF, IP	Human, Mouse, Rat
	A11483	[KO Validated] SQSTM1 / p62 Rabbit pAb	WB, IHC, IF, IP	Human, Mouse, Rat
Parkin	A0968	Parkin Rabbit pAb	WB, IHC, IF	Human, Mouse, Rat
PINK1	A7131	PINK1 Rabbit pAb	WB, IF	Human, Mouse, Rat
ULK1	A8529	ULK1 Rabbit pAb	WB, IHC, IF	Human, Mouse, Rat
	AP0736	Phospho-ULK1-S757 Rabbit pAb	WB	Human