

Apoptosis

NEW Reagents for Apoptosis Research

Apoptosisは、進化の過程で維持されている高度に制御された細胞死です。アポトーシスは正常細胞の発生および組織の恒常性に重要に働きますが、制御不能となることもあります。この異常なアポトーシスのプロセスは癌や自己免疫疾患などの多くの生物学的疾患に関与しています。

アポトーシスは主にinduction、activation、executionの重要な段階で連続して起こります。eBioscienceはアポトーシスの活性化と実行を質的および量的にモニターし、in Vitroでアポトーシスを誘導できる多くの試薬を販売しています。

2010 | April

FEATURING

FLOWCYTOMIX™ MULTIPLEX ANALYTE DETECTION KITS

- sAPO-1/Fas (h) **NEW**
- Caspase-3 (h) **NEW**
- Caspase-9 (h) **NEW**
- TNF- α (m) **NEW**

ELISA KITS

- Caspase-3 Instant ELISA® (h) **NEW**
- TNF- α (m) Instant ELISA® **NEW**
- sTNFR-II Instant ELISA® (m) **NEW**
- TWEAK Instant ELISA® (h) **NEW**
- APRIL (h)
- Bcl-2 (h)

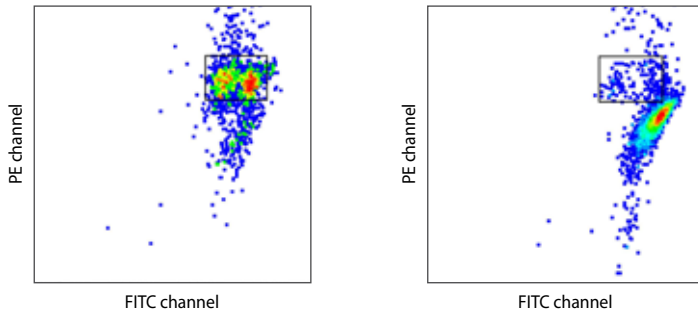
APOPTOSIS DETECTION KITS

- Annexin V-eFluor® 450 **NEW**
- Annexin V-APC
- Annexin V-Biotin
- Annexin V-FITC
- Apo-Direct
- Apo-BrdU

h=human, m=mouse

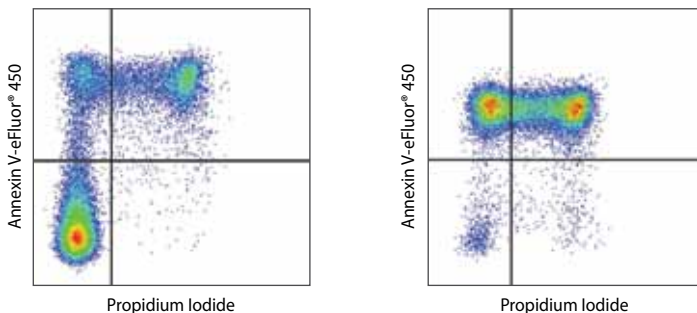
JC-1 Mitochondrial Membrane Potential Dye

JC-1 membrane permeable dyeはミトコンドリアに選択的に入り、フローサイトメトリーおよび蛍光顕微鏡法でアポトーシスの重要な要素であるミトコンドリア膜電位の測定に広く用いられます。ミトコンドリア膜電位/分極(> 80-100 mV)の増加は、JC-1凝集体の可逆的的形成を促進し、発光がシフトします(488 nm で励起した場合、JC-1単体は~530 nmで、凝集体は~590 nmで発光します)。両方のカラーはFITC、PEまたはrhodamineそれぞれのフィルターを用いて検出できます。



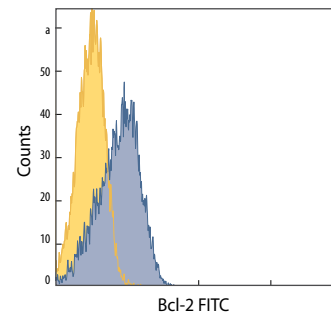
Balb/cマウスの胸腺細胞を一晩水中に静置させるか(左)または37°Cで一晩培養し(右)、2.5 μ g/mlのJC-1(cat.no.65-0851)で10分間室温で染色後、AnnexinV-APC (cat.no.88-8007)で染色しました。Annexin陽性細胞を解析に使用しました。

Annexin V-eFluor® 450



マウス胸腺細胞を単細胞浮遊液に調整し、37°Cで一晩、培養液で(左)または1 μ M dexamethasoneを添加した培養液で(右)培養しました。細胞を回収し、Annexin V-eFluor® 450 Apoptosis Detection Kit (cat. no. 88-8006)および Propidium Iodide Staining Solution (cat. no. 00-6990)で染色しました。

Mouse/Rat Bcl-2



マウス脾臓細胞をFITC標識抗マウス/ラットBcl-2抗体(10C4) (cat. no.11-6992)を用いて細胞内染色しました。自家蛍光を黄色 histogramで示す。全ての細胞を解析に用いました。

Apoptosis

Apoptosis Detection Kits		
Product	Cat. No.	Application
Annexin V-APC Apoptosis Detection Kit	8007	FC
Annexin V-Biotin Apoptosis Detection Kit	BMS500BT	FC
Annexin V-eFluor® 450 Apoptosis Detection Kit	8006	FC
Annexin V-FITC Apoptosis Detection Kit	8005	FC
Apo-BrdU Apoptosis Detection Kit	6671	FC
Apo-Direct Apoptosis Detection Kit	6611	FC

Human Apoptosis Research Products

FlowCytomix™ Multiplex Kits

Product	Cat. No.	Description
sAPO-1/Fas	BMS80245FF	Simplex Kit for flow cytometry.
Caspase-3	BMS82012FF	Simplex Kit for flow cytometry.
Caspase-9	BMS82025FF	Simplex Kit for flow cytometry.

ELISA Kits

Product	Cat. No.	Description	Sensitivity
APRIL	BMS2008	ELISA Kit (1 plate)	0.4 pg/ml
	BMS2008TEN	ELISA Kit (10 plates)	0.4 pg/ml
Bcl-2	BMS244/3	ELISA Kit (1 plate)	0.5 ng/ml
	BMS244/3TEN	ELISA Kit (10 plates)	0.5 ng/ml
Caspase-3	BMS2012INST	Instant ELISA® (1 plate)	0.12 ng/ml
Caspase-8	BMS2024	ELISA Kit (1 plate)	0.1 ng/ml
	BMS2024TEN	ELISA Kit (10 plates)	0.1 ng/ml
Caspase-9	BMS2025TEN	ELISA Kit (10 plates)	0.4 ng/ml
Cytochrome c	BMS263	ELISA Kit (1 plate)	0.05 ng/ml
	BMS263TEN	ELISA Kit (10 plates)	0.05 ng/ml
sFas (CD95)	BMS245TEN	ELISA Kit (10 plates)	13.2 pg/ml
sFasL (CD95 Ligand)	BMS260/2TEN	ELISA Kit (10 plates)	0.07 ng/ml
TNF-α	BMS223INST	Instant ELISA® (1 plate)	1.65 pg/ml
TRAIL	BMS2004	ELISA Kit (1 plate)	5.4 pg/ml
	BMS2004TEN	ELISA Kit (10 plates)	5.4 pg/ml
TWEAK	BMS2006INST	Instant ELISA® (1 plate)	9.6 pg/ml

Recombinant Proteins

Product	Cat. No.	Description
TRAIL (APO2L)	BMS356	Purified, Recombinant Protein

Antibodies

Product	Cat. No.	Clone	Formats
Bcl-2	1029	4D7	Biotin, FITC
Bid	9944	1H11	Purified
Caspase-3	6663	31A1067	Purified
Caspase-7	14-9933	20F3	Purified
Caspase-8	14-9934	1H10	Purified
Caspase-9	BMS1041	96-2-2	Purified
Caspase-12	14-6207	--	Polyclonal
		6601	6H2
Cytochrome c	6602	7H8	Purified
		6238	DJR3
DcR1	6239	DJR4-1	Purified, Biotin, PE
DR3 (TWEAK)	6603	JD3	Purified, Biotin, PE
DR3 (TWEAK)	6603	JD3	Purified, Biotin, PE
DR4 (TRAIL-R1)	6644	DJR1	Purified, Biotin, PE
DR5 (TRAIL-R2)	9908	DJR2-4	Purified, Biotin, PE
		DJR2-2	Purified
		2A7	Purified, Purified FG

Antibodies (Continued)

Product	Cat. No.	Clone	Formats
Fas (CD95)	0958	E0S9.1	Purified, Purified FG
	0959	DX2	Purified, Biotin, FITC, Pacific Blue®, PE, PE-Cy5
FasL (CD95 Ligand)	9919	NOK-1	Purified, Purified FG, Biotin, PE
	6739	--	Polyclonal
PARP	6766	--	Polyclonal
	6666	C2-10	Purified
PUMA	14-6041	--	Polyclonal
Trail	9927	RIK-2	Purified, Purified FG, Biotin, PE

Mouse Apoptosis Research Products

FlowCytomix™ Multiple Analyte Detection Kits

Product	Cat. No.	Description
TNF-α	BMS8607/2FF	Simplex Kit for flow cytometry
IFN-γ	BMS8606/2FF	Simplex Kit for flow cytometry
IL-1α	BMS8611FF	Simplex Kit for flow cytometry

ELISA Kits

Product	Cat. No.	Description	Sensitivity
TNF-α	BMS607/2INST	Instant ELISA® (1 plate)	2.1 pg/ml
	7324	ELISA Ready-SET-Go!® Kit	8 pg/ml
sTNFR-II	BMS6003INST	Instant ELISA® (1 plate)	0.6 pg/ml

Antibodies

Product	Cat. No.	Clone	Formats
Bcl-2	6992	10C4	Purified, FITC
Caspase-1	14-9832	5B10	Purified
Caspase-3	6663	31A1067	Purified
Caspase-8	9934	1H10	Purified
Caspase-11	9935	17D9	Purified, PE
Caspase-12	9950	14F7	Purified
Fas (CD95)	0951	15A7	Purified, Biotin, PE
	5912	MFL4	Purified, Purified FG
		MFL3	Purified, Purified FG, Biotin, PE
FasL (CD95 Ligand)	6739	--	Polyclonal
	6601	6H2	Purified, FITC
Cytochrome c	6602	7H8	Purified
		5883	MD5-1
DR5	5883	MD5-1	Purified, Purified FG, Biotin, PE
		5964	357
Nur77	5965	12.14	Purified, PE
		6766	--
PARP	6666	C2-10	Purified
		14-6041	--
PUMA	14-6041	--	Polyclonal
Trail	5951	N2B2	Purified, Purified FG, Biotin, PE

Dyes for Cell Biology Function

Product	Cat. No.	Description
JC-1	65-0851	Mitochondrial Membrane Potential Dye
Propidium Iodide	00-6990	Cell Viability Dye for flow cytometry
7-AAD Staining Solution	00-6993	Cell Viability Dye for flow cytometry

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