



Innate immunity and Inflammation





發炎反應 Inflammation

發炎反應為生物體抵禦外來病原體的先天性免疫力的機制之一，當生物體受到外來物侵犯時，免疫細胞、炎症脂質介質和細胞激素之間會彼此協調作用，使體內產生適當的免疫反應，清除外來物並進行組織修復，最後恢復體內平衡。

Cayman 提供研究者在先天性免疫反應與免疫調節方面，相關的抗體、蛋白與試劑盒。

發炎型脂質化學介質 Inflammatory Lipid Mediators

Specialized Pro-resolving Mediators (SPMs)

Item No.	Product Name
90410	Lipoxin A ₄
590410	Lipoxin A ₄ ELISA Kit
90420	Lipoxin B ₄
501920	Lipoxin B ₄ ELISA Kit
10878	Maresin 1
501150	Maresin 1 ELISA Kit
10012554	Resolvin D ₁
500380	Resolvin D ₁ ELISA Kit
10007279	Resolvin D ₂
501120	Resolvin D ₂ ELISA Kit
13834	Resolvin D ₃
10007280	Resolvin D ₃
10007848	Resolvin E ₁
502150	Resolvin E ₁ ELISA Kit
90415	15(R)-Lipoxin A ₄
13060	17(R)-Resolvin D ₁
19412	Lipoxin LC-MS Mixture
18702	SPM D-series MaxSpec® LC-MS Mixture
19417	SPM E-series MaxSpec® LC-MS Mixture
16369	Maresin 2
17007	MCTR1
19064	PCTR1

Leukotrienes

Item No.	Product Name
500390	Cysteinyl Leukotriene ELISA Kit
20001	Cysteinyl Leukotriene HPLC Mixture I
20002	Cysteinyl Leukotriene HPLC Mixture II
20110	Leukotriene B ₄
520111	Leukotriene B ₄ ELISA Kit
22640	Leukotriene B ₄ Pathway MaxSpec® LC-MS Mixture
20410	Leukotriene E ₄
501060	Leukotriene E ₄ ELISA Kit
120114	BLT ₁ Receptor Polyclonal Antibody
120500	CysLT ₁ Receptor Polyclonal Antibody
14713	CysLT ₁ Receptor Polyclonal FITC Antibody

Prostaglandins

Item No.	Product Name
19300	Primary Prostaglandin Metabolite MaxSpec® LC-MS Mixture
12010	Prostaglandin D ₂
512031	Prostaglandin D ₂ ELISA Kit
512011	Prostaglandin D ₂ -MOX ELISA Kit
514531	Prostaglandin E Metabolite ELISA Kit
14010	Prostaglandin E ₂
514010	Prostaglandin E ₂ ELISA Kit - Monoclonal
500141	Prostaglandin E ₂ Express ELISA Kit
19422	Secondary Prostaglandin Metabolite MaxSpec® LC-MS Mixture
501001	tetranor-PGDM ELISA Kit
516521	11β-Prostaglandin F _{2α} ELISA Kit



前促發炎細胞激素 Pro-inflammatory cytokines

Assays and Protein

Item No.	Product Name
583301	Interleukin-1 α (human) ELISA Kit
583311	Interleukin-1 β (human) ELISA Kit
501030	Interleukin-6 (human) ELISA Kit
14493	MIF (human recombinant)
589201	TNF- α (human) ELISA Kit

Anti-Inflammatory Compounds

Item No.	Product Name
16293	GIT 27
19739	GSK583
21091	Kukoamine B
14929	MIF Antagonist
18377	Vidofludimus

免疫代謝 Immunometabolism

ROS Generation and Detoxification Assays

Item No.	Product Name
707002	Catalase Assay Kit
600050	Hydrogen Peroxide Cell-Based Assay Kit
601460	Hydrogen Peroxide Ratiometric MaxSpec [®] Kit
701600	Mitochondrial ROS Detection Assay Kit
601520	ROS Detection Cell-Based Assay Kit (DCFDA)
601290	ROS Detection Cell-Based Assay Kit (DHE)
10006438	Myeloperoxidase Chlorination Fluorometric Assay Kit
700160	Myeloperoxidase Peroxidation Fluorometric Assay Kit
600620	Neutrophil Myeloperoxidase Activity Assay Kit
10010895	Xanthine Oxidase Fluorometric Assay Kit
707002	Catalase Assay Kit
703102	Glutathione Peroxidase Assay Kit
706002	Superoxide Dismutase Assay Kit

RNS Assays

Item No.	Product Name
780001	Nitrate/Nitrite Colorimetric Assay Kit
760871	Nitrate/Nitrite Colorimetric Assay Kit (LDH method)
780051	Nitrate/Nitrite Fluorometric Assay Kit

ETC Activity Assays

Item No.	Product Name
700930	MitoCheck [®] Complex I Activity Assay Kit
700940	MitoCheck [®] Complex II Activity Assay Kit
700950	MitoCheck [®] Complex II/III Activity Assay Kit
700990	MitoCheck [®] Complex IV Activity Assay Kit
701000	MitoCheck [®] Complex V Activity Assay Kit

Cell Proliferation, Viability, & Cytotoxicity Tools

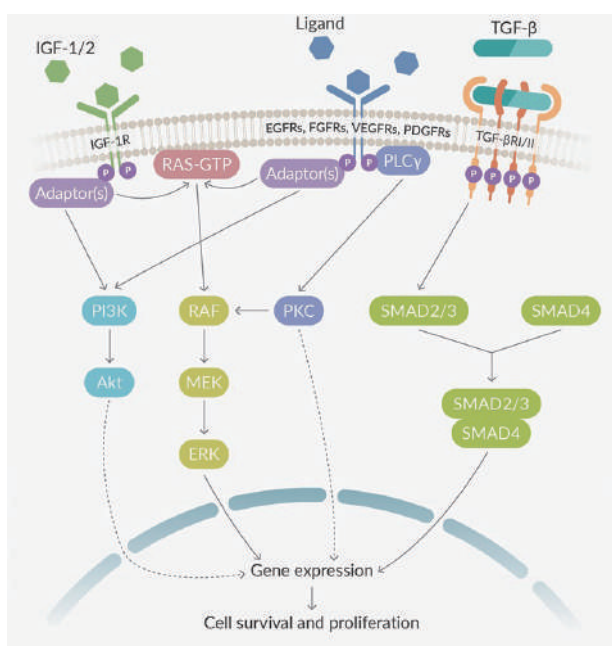
Item No.	Product Name
600120	7-AAD/CFSE Cell-Mediated Cytotoxicity Assay Kit
10009349	Cell Cycle Phase Determination Kit
10009853	CFSE Cell Division Assay Kit
32309	Ki-67 Rabbit Monoclonal Antibody
601170	LDH Cytotoxicity Assay Kit
10009365	MTT Cell Proliferation Assay Kit
10010200	XTT Cell Proliferation Assay Kit
10008883	WST-1 Cell Proliferation Assay Kit
10010199	WST-8 Cell Proliferation Assay Kit
700410	ATP Detection Assay Kit - Luminescence

發炎相關分子訊息路徑 Kinase research

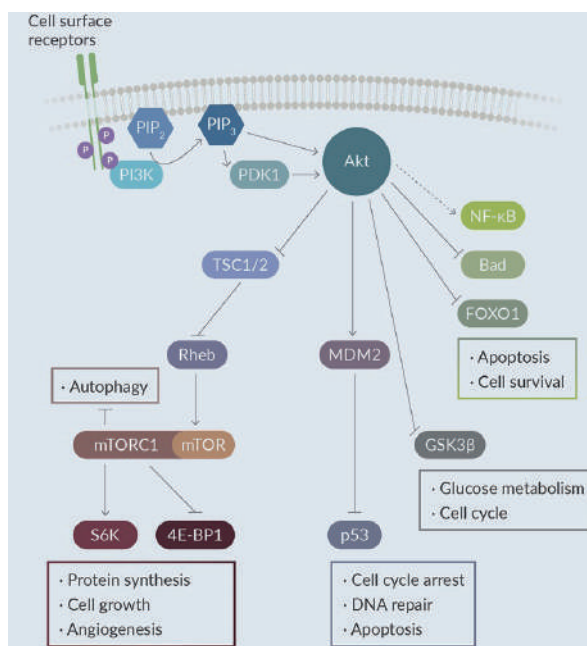
激酶信號的傳導調節許多生理反應，從細胞增殖、分化和死亡到免疫功能、發炎和血管生成。Cayman 提供研究者在生理和病理角度下，激酶功能和訊息路徑所需的激酶抑制劑、抗體、蛋白質和檢測試劑盒。



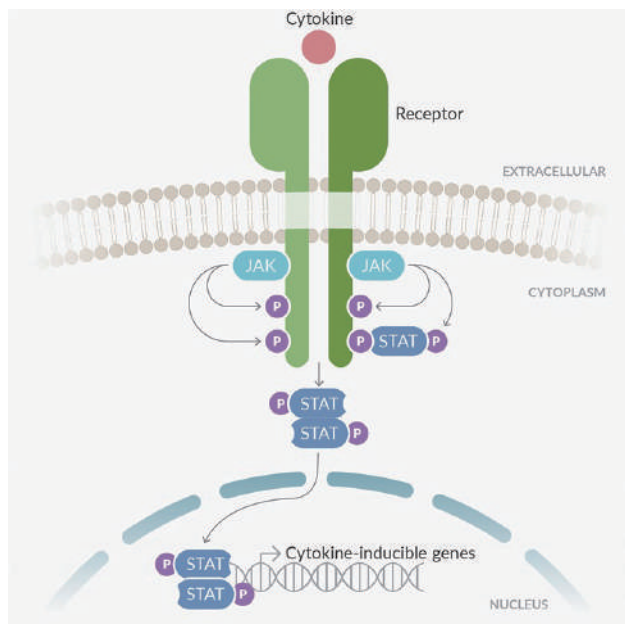
• Growth Factor Signaling



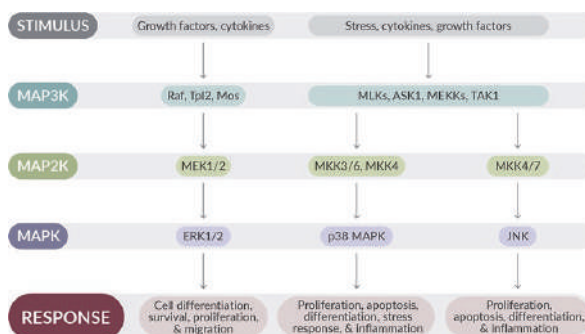
• PI3K/Akt/mTOR Pathway



• JAK/STAT Signaling Pathway



• MAPK Signaling Pathways





先天性免疫 Innate immunity

免疫系統分為兩種，分別為先天性免疫系統與後天性免疫系統，發炎反應屬於先天性免疫系統，為抵禦入侵病原體的第一道防線，並且是非特異性的。

Cayman 提供了一系列工具來研究宿主的防禦機制，包括趨化因子受體和 Toll 樣受體調節劑、吞噬反應和嗜中性細胞胞外誘捕網，以及參與 STING 信號傳導和誘導 1 型干擾素 (IFN) 反應的蛋白質。

Chemokine Receptor Modulators

Item No.	Product Name
11189	N-acetyl-Pro-Gly-Pro Peptide
17359	Antileukinate
11479	Bindarit
11960	FC 131
11963	INCB 3284 (dimesylate)
14641	Maraviroc
21492	Reparixin (L-Lysine salt)
17330	RS 504393
13336	SB 225002
11974	TC 14012
17739	UNBS5162
19812	VUF 11207 (trifluoroacetate salt)

CD36 Scavenger Receptor Antibodies

Item No.	Product Name
188150	CD36 Monoclonal Antibody (Clone JC63.1)
10009893	CD36 Monoclonal Antibody (Clone JC63.1) (azide free)
10009870	CD36 Monoclonal FITC Antibody (Clone JC63.1)
100011	CD36 Polyclonal Antibody

Phagocytosis Assay Kits

Item No.	Product Name
601370	E. coli Phagocytosis Assay Kit
601770	Efferocytosis Assay Kit
500290	Phagocytosis Assay Kit (IgG FITC)
601480	Phagocytosis Assay Kit (IgG-DyLight™ 405)
601490	Phagocytosis Assay Kit (IgG-DyLight™ 633)
600540	Phagocytosis Assay Kit (IgG PE)

嗜中性細胞胞外誘捕網 Neutrophil extracellular traps (NETs)

嗜中性細胞胞外誘捕網 (NETs) 將 DNA、組蛋白和其他抗菌成分釋放到胞外，以捕獲並殺死病原體。原因可能由呼吸爆發、MPO 誘導的染色質的鬆弛化和組蛋白的去亞胺基化所引發的反應，如未正確清除，NET 可能成為自體抗體形成的目標。

Antibodies

Item No.	Product Name
15635	dsDNA Monoclonal Antibody (Clone 2C4)
13784	Histone H3.3 Polyclonal Antibody (Also available: 13535, 13543)
15637	LL-37 Polyclonal Antibody
15641	Lysozyme C Monoclonal Antibody (Clone 4C3)
20493	Myeloperoxidase (mouse) Polyclonal Antibody (Also available: 15638, 15639, 15640)

Assay Kits

Item No.	Product Name
501410	Myeloperoxidase (human) ELISA Kit
601010	NETosis Assay Kit
600610	Neutrophil Elastase Activity Assay Kit
600620	Neutrophil Myeloperoxidase Activity Assay Kit
601130	Neutrophil/Monocyte Respiratory Burst Assay Kit
601070	Neutrophil (mouse) Isolation Kit
601750	NETosis Imaging Assay Kit



類鐸受體 Toll-like receptors

Antibodies

Item No.	Product Name
13582	Toll-Like Receptor 1 Polyclonal Antibody
13587	Toll-Like Receptor 2 Monoclonal Antibody (Clone TL2.1)
13589	Toll-Like Receptor 4 Monoclonal Antibody (Clone HTA125)
13593	Toll-Like Receptor 9 Monoclonal Antibody (Clone 26C593.2)

Agonists and Pathogen-Associated Molecular Patterns

Item No.	Product Name
14956	Imiquimod
19661	LPS from Escherichia coli O111:B4
22952	Motolimod
24126	Pam ₃ CSK ₄ (trifluoroacetate salt)
14806	R-848

免疫腫瘤學 - 干擾素基因刺激因子 STING

STING 參與先天性免疫反應，可誘導各種干擾素、細胞激素和 T 細胞招募因子的表達，並增強抗癌反應。原理為藉由核酸傳感器環 GMP-AMP 合成酶 (cGAS)，偵測腫瘤細胞細胞質中的 dsDNA，導致環二核苷酸第二信使 2'3'-cGAMP 的產生，並且分泌至胞外，當腫瘤微環境 (TME) 中，健康宿主細胞攝取 2'3'-cGAMP，會激活 STING 並產生第一型干擾素且抑制腫瘤生長。

STING Variants

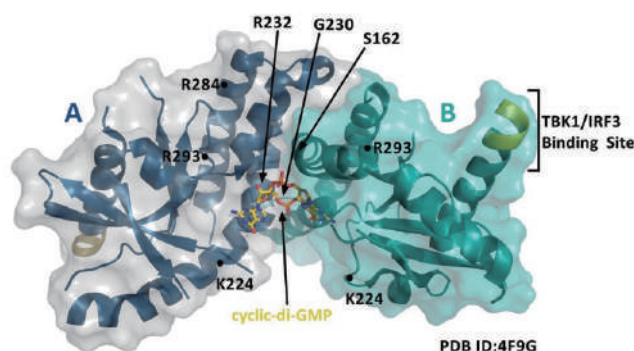
Item No.	Product Name
22816	STING R232 variant (human recombinant)
22815	STING H232 variant (human recombinant)
15139	STING H232 variant; SUMO-tagged (human recombinant)
23592	STING AQ variant (human recombinant)
23594	STING M284 variant (human recombinant)
23593	STING R224 variant (human recombinant)
25306	STING A162 variant (human recombinant)

cGAS, STING, IRF3, and IKK γ Antibodies

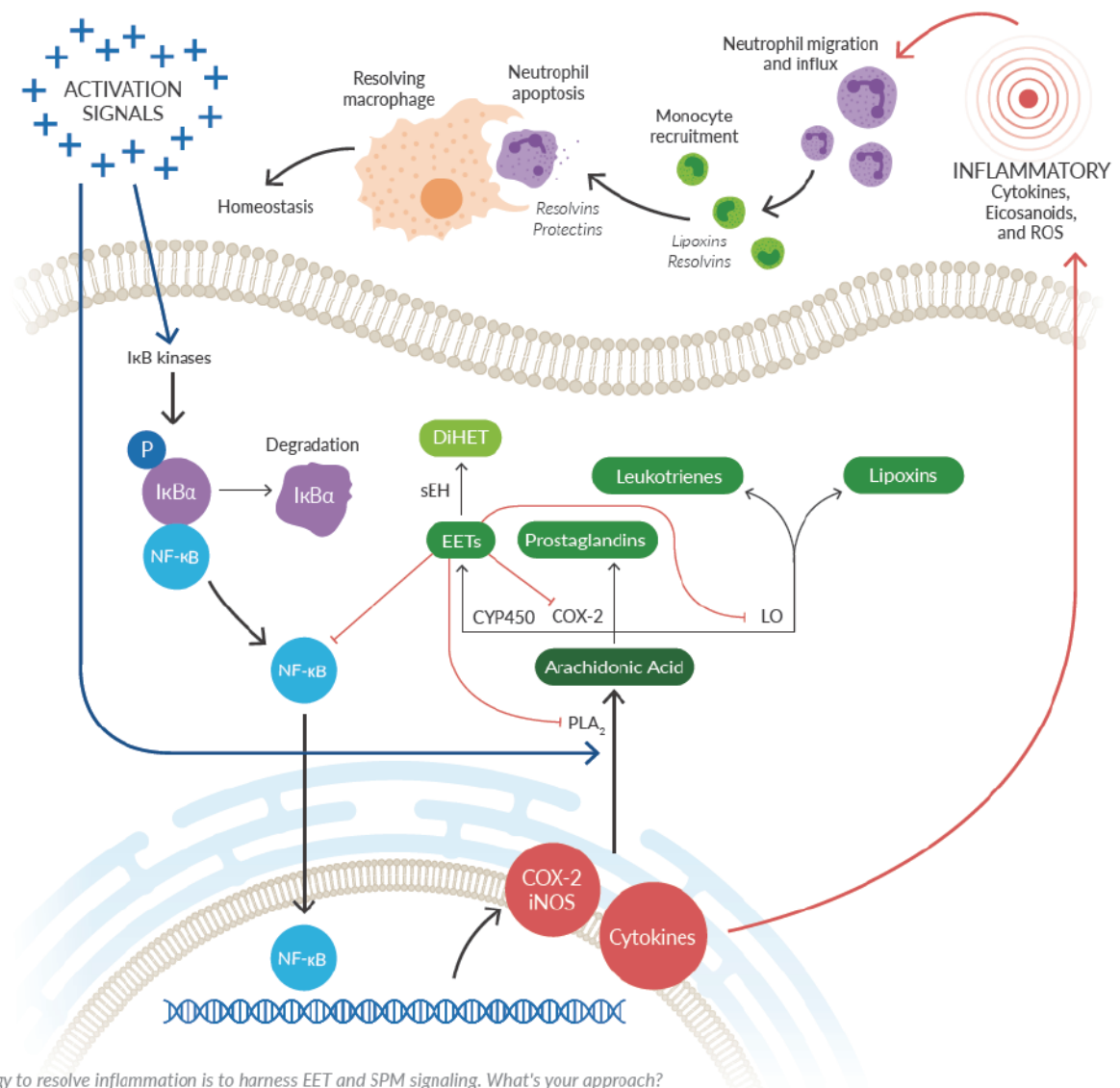
Item No.	Product Name
23853	cGAS Monoclonal Antibody (Clone 5G10)
17856	STING Monoclonal Antibody (Clone 2C8)
17857	STING Polyclonal Antibody
24791	STING M284 variant Polyclonal Antibody
24937	IRF3 Polyclonal Antibody
13931	IKK γ Monoclonal Antibody (Clone 72C627)

Upstream/Downstream Proteins in the STING Pathway

Item No.	Product Name
22810	cGAS (human recombinant)
25001	cGAS (161-522) (human recombinant)
22809	CdnP (Mycobacterium tuberculosis strain ATCC 25618/ H37Rv recombinant)
22817	TBK1 (human recombinant)
22811	IRF3 (human recombinant)
23590	IRF3 (S386A, S396A mutant; human recombinant)



Inflammatory pathway





台北:(02)8751-5851 台南:(06)311-0133 客服:0800-0123-10
台中:(04)2422-0117 新竹:(03)621-0429 信箱:service@exbio.com.tw

