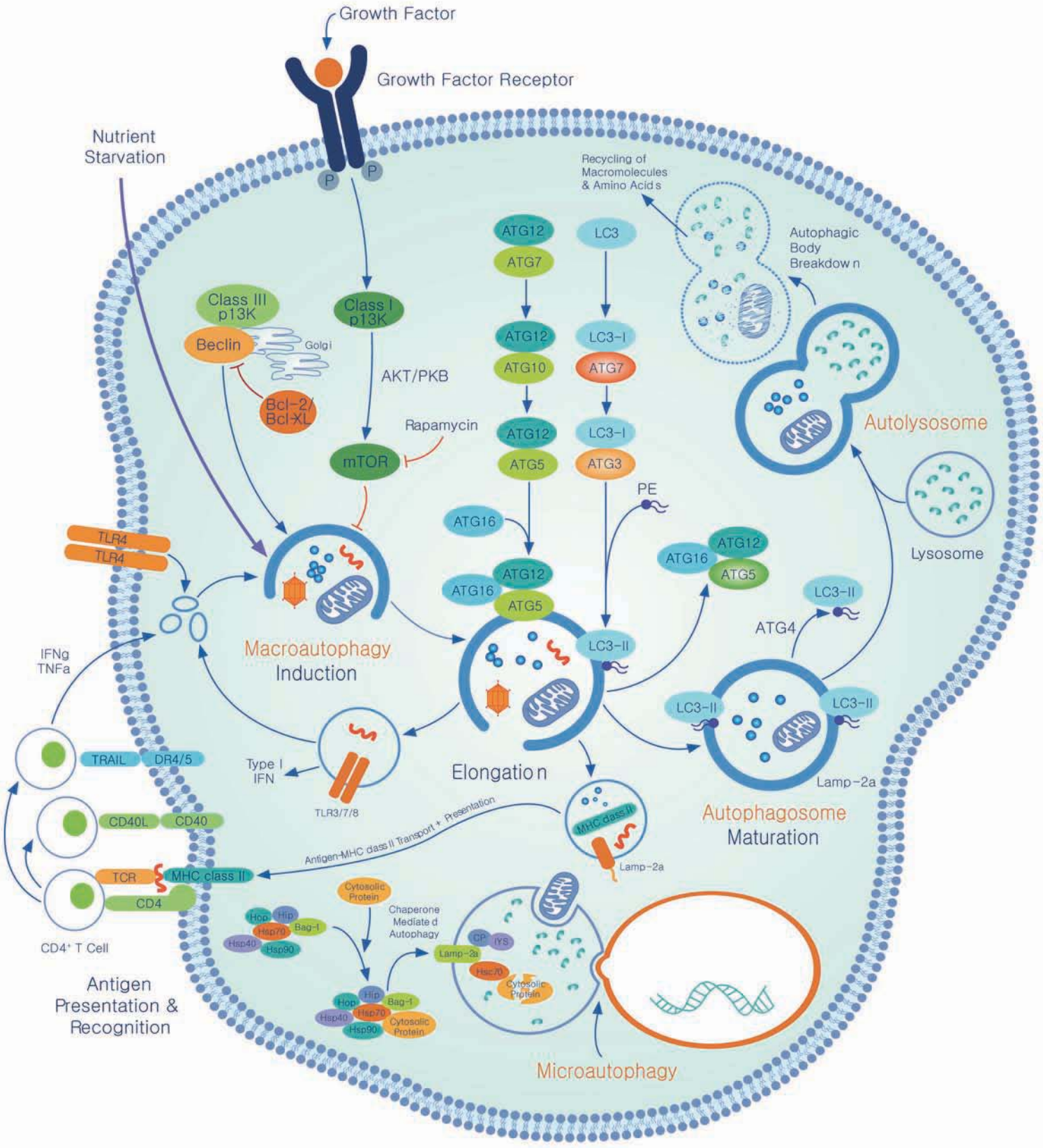
INDUSTRY-LEADING RESEARCH TOOLS

AUTOPHAGY

TOCRIS

R&D systems
a bio-techne brand



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(주)웅비메디텍
WOONGBEE MeDiTech, Inc.

Cat. No.	Product Name	Primary action
Autophagy Activators		
1234	A23187, free acid	Causes ER stress; induces autophagy in mammalian cells
4095	Amiodarone	Causes mitochondrial fragmentation and cell death; stimulates autophagy
1231	Brefeldin A	Causes ER stress; induces autophagy in mammalian cells
4098	Carbamazepine	Reduces inositol levels; induces autophagy
1126	Dexamethasone	Anti-inflammatory glucocorticoid; also induces autophagy in ALL cell lines
3093	Dorsomorphin	Induces autophagy via an AMPK inhibition-independent mechanism
3993	EB 1089	Vitamin D receptor (VDR) agonist; induces autophagy in MCF-7 cells
0741	GF 109203X	Protein kinase C inhibitor
0681	L-690,330	Inositol monophosphatase inhibitor; induces autophagy independently of mTOR inhibition
1391	NF 449	Highly selective $P2X_1$ antagonist
4079	Niclosamide	STAT3 inhibitor; also inhibits mTORC1 signaling. Stimulates autophagy in vitro
0600	Nimodipine	Ca^{2+} channel blocker (L-type)
0601	Nitrendipine	Ca^{2+} channel blocker (L-type)
2930	PI 103	Inhibitor of PI 3-kinase, mTOR and DNA-PK
1267	Pifithrin-α hydrobromide	p53 inhibitor; aryl hydrocarbon receptor agonist
1292	Rapamycin	mTOR inhibitor; immunosuppressant
1610	Rottlerin	Reported PKCδ inhibitor; stimulates autophagy
4297	SMER 28	Positive regulator of autophagy
2706	Temozolomide	DNA-methylating antitumor agent; also induces autophagy
1138	Thapsigargin	Causes ER stress; induces autophagy in mammalian cells
4247	Torin 1	Potent and selective mTOR inhibitor
3516	Tunicamycin	Causes ER stress; induces autophagy in mammalian cells
2815	Valproic acid, sodium salt	Reduces inositol levels; induces autophagy
0654	Verapamil	Ca^{2+} channel blocker (L-type)
4808	FK 866 hydrochloride	Non-competitive and potent NAMPT inhibitor; induces apoptosis and autophagy
4849	3-Nitropropionic acid	Irreversible mitochondria respiratory complex II inhibitor
4989	Salirasib	Ras inhibitor; also induces autophagy
0790	Rilmenidine hemifumarate	α2-adrenergic agonist; also I1-imidazoline binding site selective ligand
4846	Apicidin	Potent histone deacetylase inhibitor, induces autophagy
0690	Clonidine hydrochloride	α2 agonist and I1 ligand; throught to enhance autophagy
4835	GPP 78 hydrochloride	NAMPT inhibitor, also induces autophagy

Cat. No.	Product Name	Primary action
Autophagy Inhibitors		
1334	Bafilomycin A1	Vacuolar H^+-ATPase inhibitor; also inhibits autophagy
1544	(±)-Bay K 8644	L-type Ca^{2+} channel agonist; inhibits autophagy
4109	Chloroquine	Inhibits apoptosis and autophagy
2656	Concanamycin A	Vacuolar H^+-ATPase inhibitor
4417	DBeQ	Selective p97 inhibitor; blocks autophagosome maturation
4545	E 64d	Cathepsin inhibitor; interferes with lysosomal digestion
1130	LY 294002	Selective PI 3-kinase inhibitor; inhibits autophagic sequestration
3977	3-Methyladenine	Class III PI 3-kinase inhibitor; also inhibits autophagy
1228	Nocodazole	Microtubule inhibitor; inhibits autophagosome-lysosome fusion
1190	Pepstatin A	Protease inhibitor; interferes with lysosomal digestion
1097	Taxol	Promotes assembly and inhibits disassembly of microtubules
1256	Vinblastine	Disrupts microtubules; inhibits autophagosome maturation
1232	Wortmannin	Potent, irreversible inhibitor of PI 3-kinase; inhibits PLK1
2473	GW 4064	FXR agonist; suppresses autophagy in nutrient-deprived hepatocytes
5197	Spautin 1	USP10 and USP13 inhibitor; inhibits autophagy
4686	Xanthohumol	Valosin-containing protein (VCP) inhibitor
5648	Hydroxylchloroquine sulfate	Autophagy inhibitors, also TLR9 inhibitor
5153	ML 240	ATP-competitive inhibitor of p97 ATPase; impairs autophagosome maturation