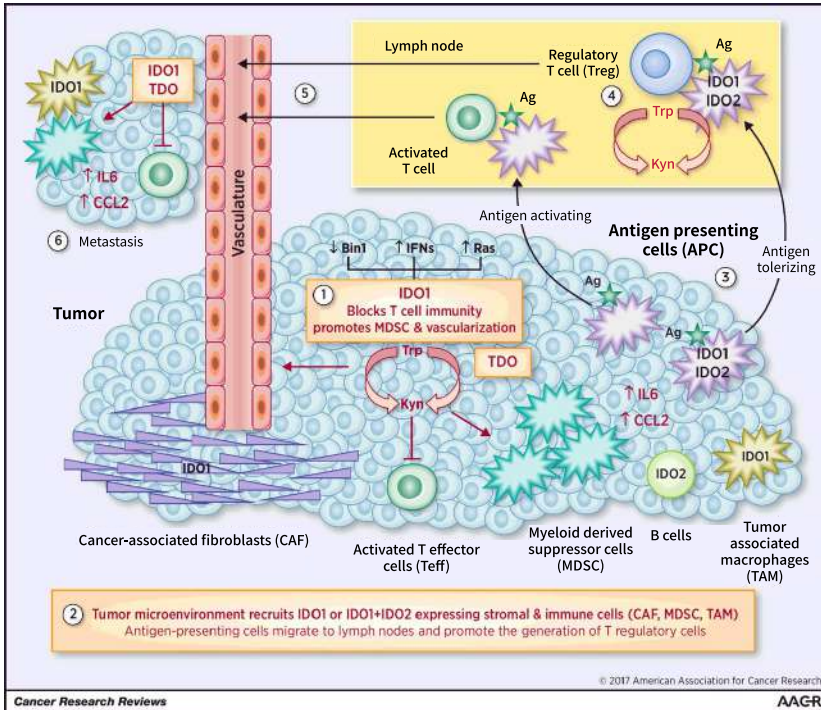


Immunecheckpoint Inhibitors



Immunecheckpoint molecules는 면역억제 신호 전달 경로를 활성화 시키는 면역 세포 상에서 발현되는 억제성 수용체입니다.

이들은 감염 동안 upregulate 되어지며 면역반응을 조절하고, self-tolerance를 유지하며 면역반응으로 야기되는 damage로부터 조직을 보호하는데 중요한 역할을 합니다.

IDO와 TDO 그리고 arginase 등도 역시 면역 세포 기능에 필수적인 아미노산의 국소적 고갈을 유발하기 때문에 Immunecheckpoint molecules로 간주됩니다.

이와 관련한 inhibitor들을 활용해 보세요!!

Target	Products	Cat #	Description
IDO	INCB 024360-analog	6007	Potent indoleamine 2,3-dioxygenase (IDO) inhibitor
	1-Methyl-D-tryptophan	5698	Indoleamine 2,3-dioxygenase (IDO) inhibitor
TDO	680C91	4392	Potent and selective tryptophan 2,3-dioxygenase (TDO) inhibitor
	LM 10	5794	Selective tryptophan 2,3-dioxygenase (TDO) inhibitor
기타	(R)-(+)-Bay K 8644	1545	CaV1.x blocker; TMEM176B inhibitor
	Lin28 1632	6068	RNA binding protein Lin28 inhibitor; promotes mESC differentiation
	(D)-PPA 1	6515	PD-1/PD-L1 interaction inhibitor
	Nor NOHA monoacetate	6370	Arginase inhibitor

Related Products

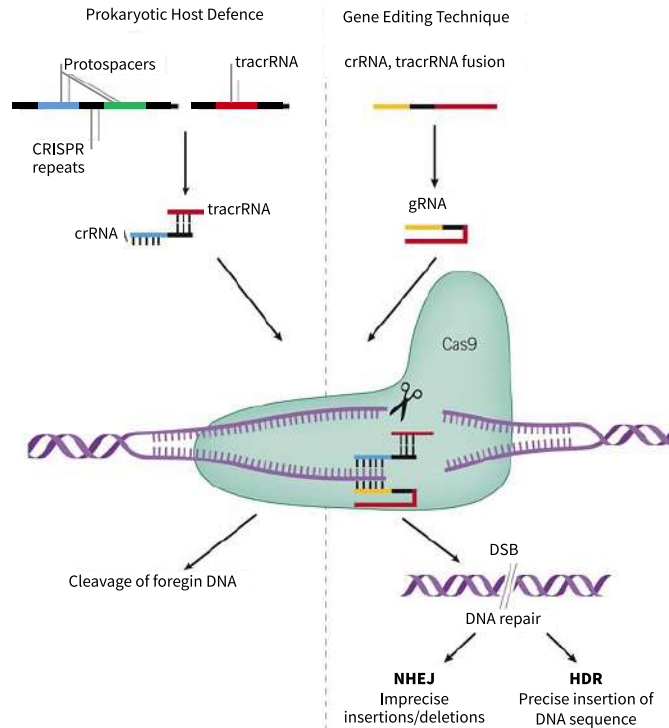
Target	ELISA		Protein	
	Cat #	Description	Cat #	Description
IDO	DY6030-05	Human IDO DuoSet ELISA	6030-AO	rh IDO Protein, CF
			9157-AO	rm IDO Protein, CF
TDO			9768-TD	rh TDO2 Protein, CF
			10001-TD	rm TDO2 His-tag Protein, CF
기타	DY1086	Human PD-1 DuoSet ELISA	1086-PD	rh PD-1 Fc Chimera Protein, CF
	DY1021	Mouse PD-1 DuoSet ELISA	8986-PD	rh PD-1 His Tagged Protein, CF
	DB7H10	Human PD-L1 Quantikine ELISA Kit	1021-PD	rm PD-1 Fc Chimera Protein, CF
	DY156	Human PD-L1 DuoSet ELISA	9047-PD	rm PD-1 His-tag Protein, CF
	DY1019-05	Mouse PD-L1 DuoSet ELISA	156-B7	rh PD-L1/B7-H1 Fc Chimera Protein, CF
			9049-B7	rh PD-L1/B7-H1 His-tag Protein, CF
			1019-B7	rm PD-L1/B7-H1 Fc Chimera Protein, CF
		9048-B7	rm PD-L1/B7-H1 His-tag Protein, CF	

CRISPR and Single Cell Isolation

Cas1/2 detects foreign DNA, and inserts a portion of the invading DNA between the CRISPR repeats as protospacers.

CRISPR repeats and protospacers are transcribed as crRNAs, which form complexes with tracrRNAs, before binding to Cas9

The protospacer of the crRNA-tracrRNA complex binds the complementary sequence on the invading DNA, which is then cleaved by Cas9.



A crRNA and tracrRNA are fused to form a RNA guided nuclease (gRNA). The gRNA is engineered to contain the complementary sequence to the DNA sequence of interest.

gRNA and Cas9 protein expressing plasmids are transfected into eukaryotic cells.

Cas9 is guided by the gRNA to the desired location, and cleaves the DNA to form a double stranded break (DSB)

DSBs are then repaired through either non-homologous end-joining (NHEJ) or homologous directed repair (HDR). Small molecules have been found to enhance the efficiency of precise HDR gene editing.

CRISPR로 대표되는 유전자 편집 기술의 혁신적인 발전으로, 유전자 편집을 이용하여 보다 신속하고 정확하게 비교적 가격이 저렴하면서 효과가 좋은 신약의 개발이 기대되고 있습니다.

Cat #	Products	Description
6554	(+)-Abscisic Acid	Used to control Cas9 via abscisic acid-inducible biosensor system ; also endogenous LANCL2 agonist
5199	AZD 7762 hydrochloride	Enhances CRISPR-Cpf1-mediated genome editing ; also potent and selective ATP-competitive Chk1 and Chk2 inhibitor
4150	Azidothymidine	Decreases CRISPR-mediated HDR efficiency
1231	Brefeldin A	Enhances CRISPR-mediated HDR efficiency
3412	(Z)-4-Hydroxytamoxifen	Activates intein-linked inactive Cas9, reducing off-target CRISPR-mediated gene editing
4840	KU 0060648	Activates intein-linked inactive Cas9, reducing off-target CRISPR-mediated gene editing
2197	L-755,507	Enhances CRISPR-mediated HDR efficiency
5054	ME 0328	Enhances CRISPR-Cas9-mediated HER2 mutation frequency
1228	Nocodazole	Enhances HDR efficiency ; also increases Cas9-mediated gene editing frequencies
3712	NU 7441	Enhances HDR efficiency and attenuates NHEJ frequency
5810	RS 1	Enhances HDR efficiency and increases CRISPR-mediated knock-in efficiencies
5342	SCR7 pyrazine	Enhances HDR efficiency

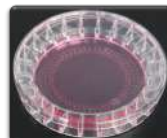
Related Products

Single Cell Isolation
Smart Aliquotor

Single-Cell Isolation



Single-Cell Cloning



Rare-Cell Isolation

