

Immune Checkpoint

Related Recombinant Proteins

TNF Superfamily

Product name	Species	Expression system	Cat No.
CD27	H	<i>E.coli</i>	ATGP1710(D)
	H	Baculovirus	ATGP3416
CD70	H	<i>E.coli</i>	ATGP2998(D)
	H	Baculovirus	ATGP3336
OX40/TNFRSF4	H	Baculovirus	ATGP3686
CD40/TNFRSF5	H	<i>E.coli</i>	ATGP2615
	M	Baculovirus	ATGP3198
CD40L/TNFSF5	H	<i>E.coli</i>	ATGP1017
	M	Baculovirus	ATGP3200
CD27/TNFRSF7	H	<i>E.coli</i>	ATGP1710(D)
	H	Baculovirus	ATGP3416
CD27L/TNFSF7	H	<i>E.coli</i>	ATGP2998(D)
	H	Baculovirus	ATGP3336
	H	Baculovirus	ATGP3416
CD30/TNFRSF8	H	<i>E.coli</i>	ATGP1976(D)
	H	Baculovirus	ATGP3222
	H	Baculovirus	ATGP3389
CD30L/TNFSF8	H	<i>E.coli</i>	ATGP2649(D)
	H	Baculovirus	ATGP3343
4-1BB/TNFRSF9	H	<i>E.coli</i>	ATGP1522
	H	Baculovirus	ATGP3303
	M	Baculovirus	ATGP3199
4-1BBL/TNFSF9	H	<i>E.coli</i>	ATGP0308
HVEM/TNFRSF14	H	<i>E.coli</i>	ATGP2443
	H	Baculovirus	ATGP3379
	M	Baculovirus	ATGP3916
GITR/TNFRSF18	H	Baculovirus	ATGP3215
	H	Baculovirus	ATGP3319
GITRL/TNFSF18	H	<i>E.coli</i>	ATGP3088(D)
	H	<i>E.coli</i>	ATGP2623(D)
	H	<i>E.coli</i>	ATGP1249
DR3/TNFRSF25	H	Baculovirus	ATGP3375

Butyrophilins

Product name	Species	Expression system	Cat No.
BTN3A1	H	Baculovirus	ATGP3633

TIM Family Receptors & Ligands

Product name	Species	Expression system	Cat No.
Galectin-9	H	<i>E.coli</i>	ATGP0481
	M	<i>E.coli</i>	ATGP1887(D)
TIM1/HAOCR1	H	<i>E.coli</i>	ATGP3034(D)
	M	Baculovirus	ATGP3226
TIM3/HAOCR2	H	<i>E.coli</i>	ATGP1875(D)
	H	Baculovirus	ATGP3381

ANGPT/ANGPTL Ligands

Product name	Species	Expression system	Cat No.
ANGPT1	H	<i>E.coli</i>	ATGP1236(D)
ANGPTL2	H	<i>E.coli</i>	ATGP2976(D)
ANGPTL3	H	<i>E.coli</i>	ATGP3149
	H	Baculovirus	ATGP3406
ANGPTL7	M	Baculovirus	ATGP3196

Kynurenine Pathway

Product name	Species	Expression system	Cat No.
IDO1	H	<i>E.coli</i>	ATGP3488
	H	<i>E.coli</i>	ATGP2711

Other Related Receptors & Ligands

Product name	Species	Expression system	Cat No.
CD26/DPP4	H	Baculovirus	DPP0901
CD47	H	Baculovirus	ATGP3188
	H	Baculovirus	ATGP3320
CD160	H	Baculovirus	ATGP3576
	H	<i>E.coli</i>	ATGP2695(D)
CD200	H	Baculovirus	ATGP3557
	M	Baculovirus	ATGP3878
	H	<i>E.coli</i>	LAR3001
LAIR1	M	Baculovirus	ATGP3446

H : Human M : Mouse D : Denature form

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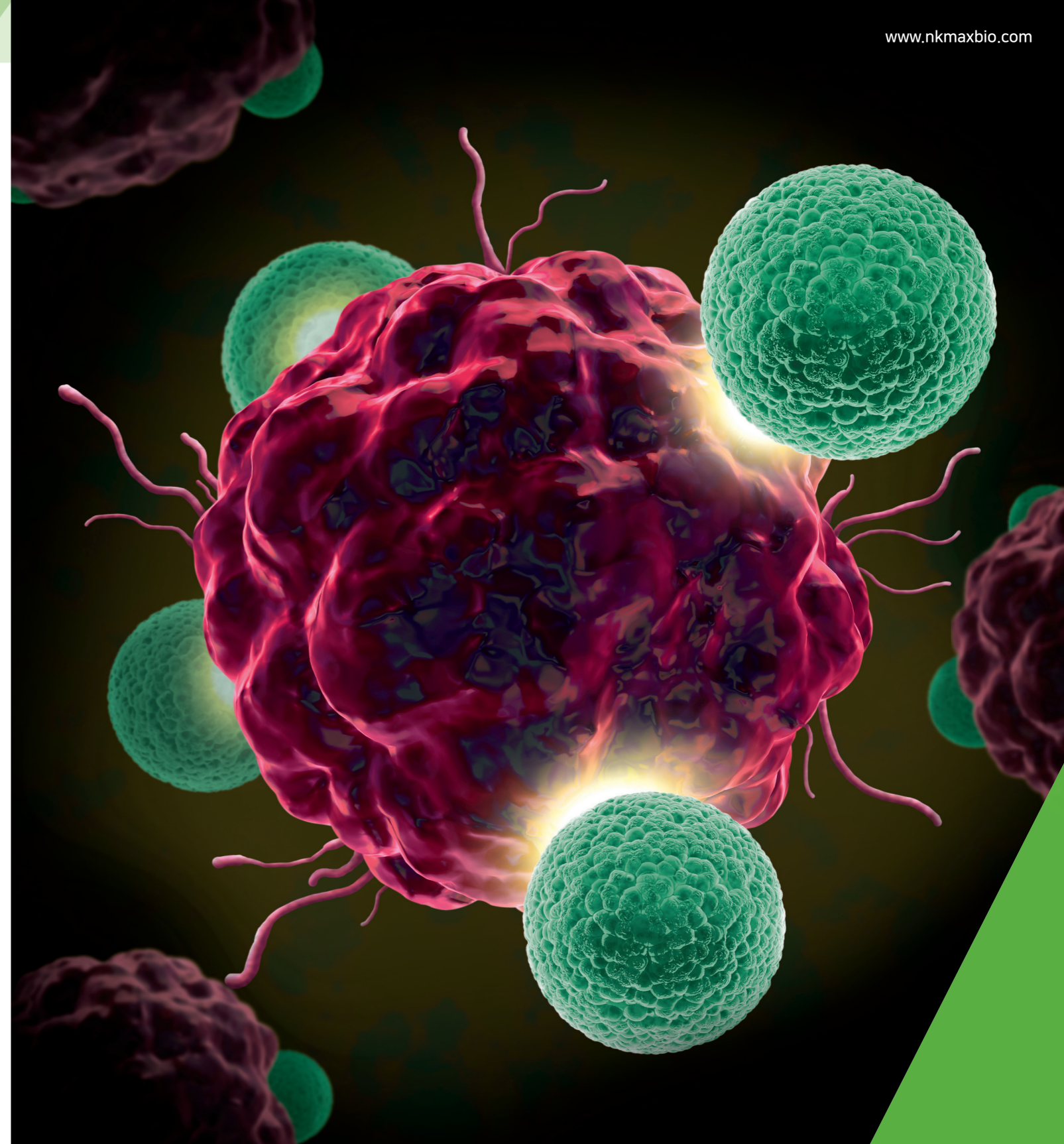
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Immune Checkpoint

Recombinant Proteins & Monoclonal Antibodies

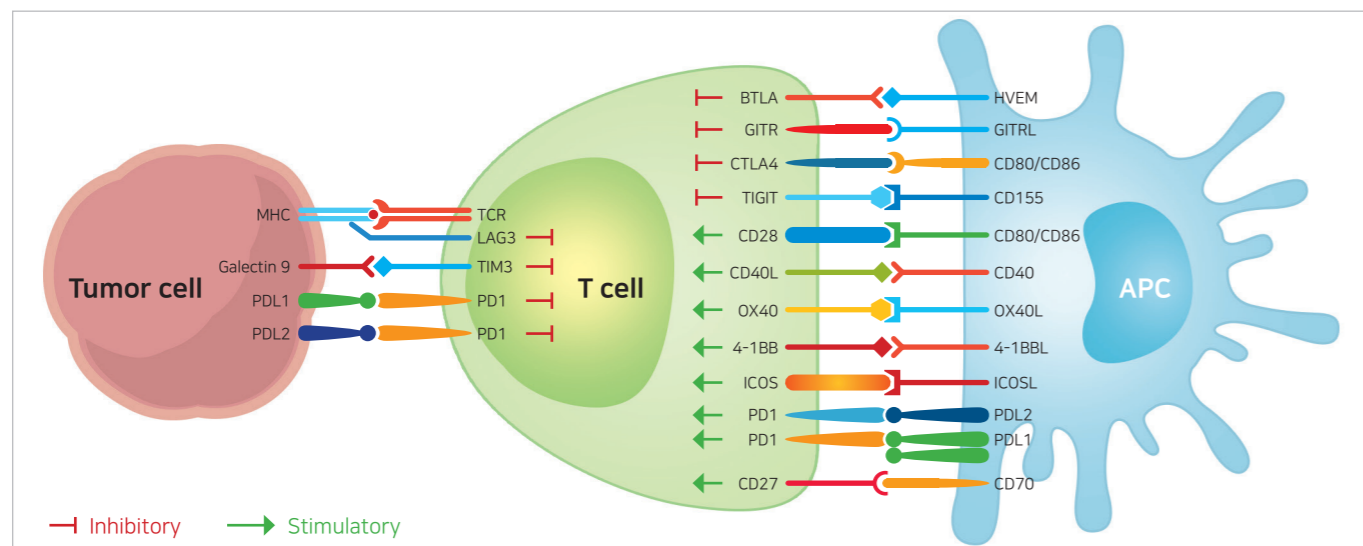
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Immune Checkpoint

Immune checkpoint molecules are regulators of immune activation. These molecules are crucial for maintaining self-tolerance and for modulating the length and magnitude of effector immune responses in peripheral tissues to minimize collateral tissue damage. Signalling through these molecules can drive effector immune cells (especially T cells) into a state known as 'exhaustion'. T cell exhaustion is defined by reduced effector function, sustained expression of immune checkpoint molecules (such as programmed cell death protein 1, PD-1), poor recall responses and a transcriptional state distinct from that of functional effector or memory T cells. There are numerous types of activating and inhibitory interactions that occur between antigen-presenting cells (APCs) and T cells, and these interactions regulate the nature of immune responses. Example of checkpoint proteins founded on T cells or Tumor cells include PD-1/PD-L1 and CTLA4. *Nature Reviews Immunology* (2018)



Related Monoclonal Antibodies

Product name	Clone No.	Applications	Isotype	Host	Cat No.
PD-1/PDCD1	4F12	ELISA, WB, FACS, ICC/IF	IgG _{2b,k}	M	APD0811
CTLA4	AT4C8	ELISA, WB, FACS, ICC/IF	IgG _{1,k}	M	ATGA0260
Fc gamma R1/CD64	AT37F7	ELISA, WB, FACS, ICC/IF	IgG _{2b,k}	M	ATGA0324
KIR2DL1/CD158a	2F9	ELISA, WB, FACS, ICC/IF	IgG _{2a,k}	M	AKR0620
KIR2DL3/CD158b2	190IIC311	ELISA, WB, ICC/IF	IgG _{2a,k}	M	AKR3006
KIR2DL4/CD158d	2H6	ELISA, WB	IgG _{2b,k}	M	AKR0501
KIR2DS4/CD158i	5F2	ELISA, WB	IgG _{2b,k}	M	AKR0504

PD-1/PDCD1 antibody (4F12) (Cat No. APD0811)	CTLA4 antibody (AT4C8) (Cat No. ATGA0260)	Fc gamma R1/CD64 antibody (AT37F7) (Cat No. ATGA0324)
ICC/IF analysis ICC/IF analysis of PD-1/PDCD1 in HeLa cells. The cell was stained with monoclonal anti-human PD-1/PDCD1 antibody (1:100). The secondary antibody (Green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (Blue).	ICC/IF analysis ICC/IF analysis of CTLA4 in Jurkat cells. The cell was stained with monoclonal anti-human CTLA4 antibody (1:100). The secondary antibody (Green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (Blue).	ICC/IF analysis ICC/IF analysis of Fc gamma R1/CD64 in HeLa cells. The cell was stained with monoclonal anti-human Fc gamma R1/CD64 antibody (1:100). The secondary antibody (Green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (Blue).

Related Recombinant Proteins

B7-CD28 Family			
Product name	Species	Expression system	Cat No.
CD28	H	Baculovirus	ATGP3603
CD80	H	Baculovirus	ATGP3663
	M	Baculovirus	ATGP3353
PD-1/PDCD1	H	Baculovirus	ATGP3612
PD-L1/B7-H1	H	<i>E.coli</i>	ATGP1543
	M	<i>E.coli</i>	ATGP1645
PD-L2/PDCD1LG2	H	<i>E.coli</i>	ATGP2757(D)
	H	Baculovirus	ATGP3571
ICOS	H	Baculovirus	ATGP3771
ICOSL	H	Baculovirus	ATGP3600
B7-H3/CD276	H	Baculovirus	ATGP3635
	M	Baculovirus	ATGP3890
B7-H4/VTCN1	H	<i>E.coli</i>	ATGP2478(D)
	H	Baculovirus	ATGP3607
BTLA	H	Baculovirus	ATGP3717
	H	<i>E.coli</i>	ATGP1959(D)
CTLA4	H	Baculovirus	ATGP3918
	H	Baculovirus	ATGP3914
	M	Baculovirus	ATGP3321
VISTA	H	Baculovirus	ATGP3255
	M	Baculovirus	ATGP3229

Fc Receptors			
Product name	Species	Expression system	Cat No.
FCAR/CD89	H	Baculovirus	ATGP3660
FCER2/CD23	H	Baculovirus	ATGP3705
FCGR2A/CD32a	H	<i>E.coli</i>	ATGP1936
FCGR2B/CD32b	H	<i>E.coli</i>	ATGP1822
FCGR3A/CD16a	H	<i>E.coli</i>	ATGP1623(D)
	H	Baculovirus	ATGP3449
FCGR3B/CD16b	H	Baculovirus	ATGP3673
FCGR4	M	Baculovirus	ATGP3485

CD94/NKG2 Family			
Product name	Species	Expression system	Cat No.
KLRD1/CD94	H	Baculovirus	ATGP3669
KLRC1/NKG2A	H	Baculovirus	ATGP3608
KLRC2/NKG2C	H	<i>E.coli</i>	ATGP1679(D)
KLRG1	H	<i>E.coli</i>	ATGP1886(D)

Killer Immunoglobulin-like Receptors (KIRs)			
Product name	Species	Expression system	Cat No.
KIR2DL1/CD158a	H	<i>E.coli</i>	KIR3001
KIR2DL3/CD158b2	H	<i>E.coli</i>	KIR3002
KIR2DL4/CD158d	H	Baculovirus	ATGP3639
KIR2DL5A/CD158f	H	Baculovirus	ATGP3623
KIR2DS4/CD158i	H	<i>E.coli</i>	KIR3003
KIR3DL1/CD158e1	H	<i>E.coli</i>	KIR3004
KIR3DL2/CD158k	H	Baculovirus	ATGP3649

Nectin and Nectin-like Binding Receptors			
Product name	Species	Expression system	Cat No.
CD96	H	Baculovirus	ATGP3617
PVR/CD155	H	Baculovirus	ATGP3644
CRTAM	H	Baculovirus	ATGP3216
DNAM1/CD226	H	<i>E.coli</i>	ATGP1954(D)
	H	Baculovirus	ATGP3475
Nectin-1	H	Baculovirus	ATGP3283
Nectin-2	H	Baculovirus	ATGP3641
Nectin-3	H	Baculovirus	ATGP3716
TIGIT	H	Baculovirus	ATGP3704

SLAM Family			
Product name	Species	Expression system	Cat No.
CD48	H	Baculovirus	ATGP3642
CD58	H	<i>E.coli</i>	ATGP2905(D)
	H	Baculovirus	ATGP3693
CD84	H	<i>E.coli</i>	ATGP1735(D)
	H	Baculovirus	ATGP3548
CD244	H	<i>E.coli</i>	ATGP1663(D)
	H	Baculovirus	ATGP3552
LY9	H	Baculovirus	ATGP3400
SLAMF1	H	<i>E.coli</i>	ATGP1883(D)
	H	Baculovirus	ATGP3522
SLAMF2	H	Baculovirus	ATGP3642
SLAMF5	H	<i>E.coli</i>	ATGP1735(D)
	H	Baculovirus	ATGP3548
SLAMF6	H	<i>E.coli</i>	ATGP1813(D)
SLAMF7	H	Baculovirus	ATGP3483
	H	Baculovirus	ATGP3258

H : Human M : Mouse D : Denature form