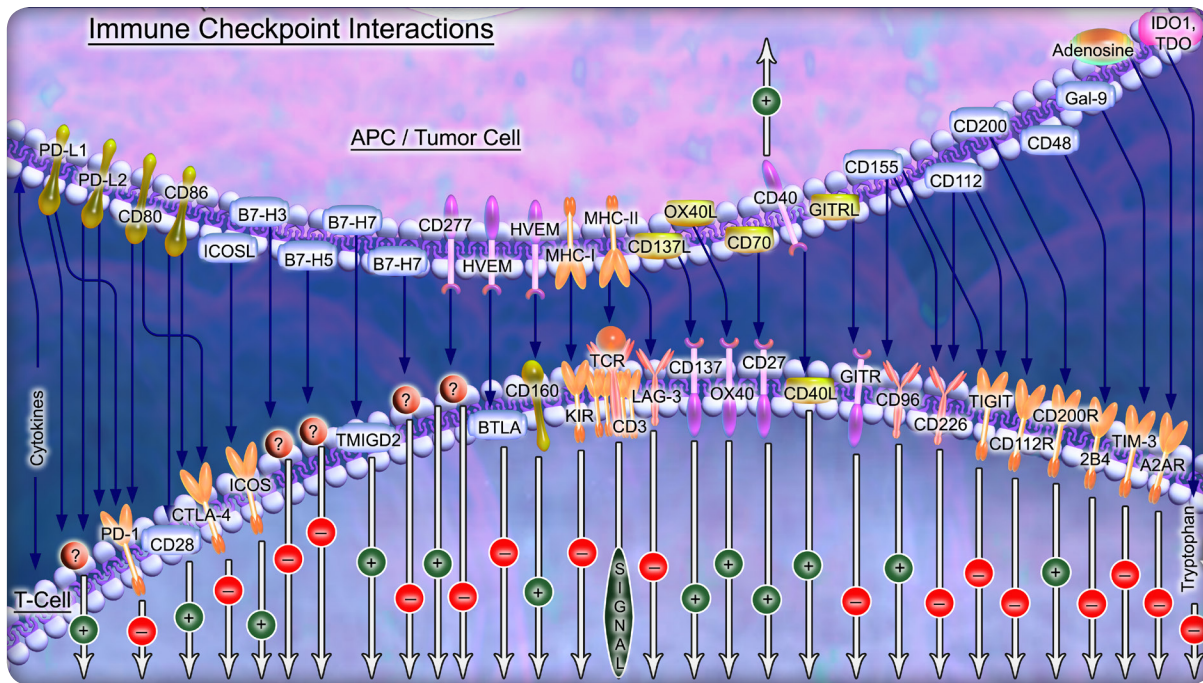


Immuno-Oncology

The human body is able to successfully defend itself against many viruses and diseases. So how do cancer cells evade the immune system, proliferate, and spread? The combination of oncology research and immunology research (Immuno-Oncology) allows for a better understanding of how the immune system functions in relation to cancer. Immune checkpoints are heavily studied to better understand how cancer cells bypass the immune system. These checkpoints are also investigated to help develop therapies for inhibiting cancer cell proliferation and progression through reactivation of the immune system. Leukemia and lymphoma are two cancers that show promise for cancer therapy using checkpoint inhibitors. There is hope that with more discoveries, additional cancers will be added to this list.



Various immune checkpoints are involved in immune escape and cancer progression. Recent discoveries for PD-1/PDL-1 interaction have led to interesting findings. When cancer cells show increased PDL-1 levels, they are able to escape immune attack. More research is being conducted for drug discovery against this target.

CTLA-4 is another target that is showing immense promise. Ipilimumab inhibits this target, thereby increasing the patient's own immune response to fight cancer cells. Researchers are still looking to find other checkpoint targets that show as much promise as PD-1 and CTLA-4 in the fight against cancer. The ideal therapy candidate will target only cancer cells and not affect the "normal" cells.

MBL offers T-cell detection tools as well as antibodies against popular immune checkpoints. We offer Class I, Class II and custom tetramers, monomers, peptides, and QuickSwitch™ kits- for custom tetramer creation. We also offer various antibodies that can be used to investigate a number of different checkpoints. These companion products are readily available to help you achieve the next big discovery in Immuno-Oncology.

Antigen	Clone	Species Reactivity	Unconjugated	Biotin	FITC	PE	APC	V450	PerCP-Cy5.5	FCM	WB	IP	FA	IHC	IF	NT	EL
Anti-CD40 (Human) mAb Functional Grade	5C3	Hu	x		x					FCM			FA				
Anti-CD40 (Mouse/Rat) mAb Functional Grade	HM40-3	Mo/Rat	x		x					FCM			FA				
Anti-CD70 (Mouse) mAb Functional Grade	FR70	Mo	x							FCM			FA				
Anti-B7-1 (CD80) (Mouse) mAb Functional Grade	2D10.4	Hu	x		x	x				FCM			FA				
Anti-B7-1 (CD80) (Mouse) mAb	16-10A1	Mo	x		x	x	x			FCM		IP	FA	IHC	IF		
Anti-B7-1 (CD80) (Rat) mAb-PE	3H5	Rat					x			FCM							
Anti-CD27 (Human) mAb	O323	Hu	x		x	x	x	x		FCM							
Anti-CD27 (Human/Mouse) mAb Functional Grade	LG.3A10	Hu	x							FCM			FA				
Anti-CD28 (Human) mAb	CD28.2	Hu	x		x	x	x		x	FCM		IP	FA	IHC			
Anti-CD28 (Mouse) mAb	37.51	Mo	x							FCM		IP	FA				
Anti-CD28 (Rat) mAb Functional Grade	JJ319	Rat	x							FCM			FA				
Anti-CD28 (Mouse) mAb-PE	37.51	Mo					x			FCM							
Anti-CTLA-4 (CD152) (Human) mAb	BN13	Hu	x			x	x			FCM		IP	FA	IHC			
Anti-CTLA-4 (CD152) (Mouse) mAb	UC10-4F10-11	Mo	x			x	x			FCM							
Anti-CD40 Ligand (CD154) (Mouse) mAb-Biotin	MR1	Mo		x	x	x				FCM							
Anti-OX40L (CD252) (Mouse) mAb-Biotin	RM134L	Mo		x			x			FCM							
Anti-BTLA (CD272) (Human) mAb-Biotin	MIH26	Hu		x						FCM							
Anti-PD-L1/B7-H1 (CD274) (Mouse) mAb	10F.9G2	Mo	x			x				FCM							
Anti-ICOS (CD278) (Human) mAb-PE	ISA-3	Hu				x				FCM							
Anti-PD-1 (CD279) (Human) mAb-FITC	MIH4	Hu			x					FCM							
Anti-PD-1 (CD279) (Mouse) mAb	J43.1	Mo	x			x				FCM		IP	FA	IHC			
Anti-AITR/GITR (CD357) (Mouse) mAb Functional Grade	DTA-1	Mo	x		x	x	x			FCM			FA	IHC	IF		
Anti-TIM3 (Human) mAb-APC	F38-2E2	Hu					x			FCM							
Anti-IFN gamma (Human) mAb-FITC	4S.B3	Hu			x	x	x			FCM							
Anti-IFN gamma (Mouse) mAb Functional Grade	XMG1.2	Mo	x	x	x	x	x	x		FCM			FA	IHC	IF		EL
Anti-IFN gamma (Human) mAb Functional Grade	NIB42	Hu	x							FCM							NT
Anti-IL-2 (Mouse) mAb-Biotin	JES6-5H4	Mo		x		x	x			FCM							
Human 4-1BB Receptor/CD137																	
Anti-CD137 (Human) mAb	4B4-1	Hu	x		x					FCM							
Anti-CD137L (Human) mAb	5F4	Hu	x		x					FCM							
Anti-CD120a (TNF-R1) (Human) mAb	H398	Hu	x		x					FCM							
Anti-CD120b (TNF-R2) (Human) mAb	80M2	Hu	x		x	x				FCM		IP					
Anti-CTLA-4 (CD152) mAb	MIH8	Hu	x	x						FCM							
Anti-Phosphorylated Vimentin (Ser50) mAb	TM50	Hu, Ms, Rat	x								WB					IF	
Anti-HVEM mAb	122	Hu	x		x					FCM							
Anti-CD134 (OX40) (Human) mAb	W4-3	Hu	x							FCM							
Anti-CD252 (OX40L) (Human) mAb	TAG-34	Hu	x							FCM							
Anti-CD279 (PD-1) (Human) mAb	J110	Hu	x		x	x				FCM	WB						
Anti-CD274 (PD-L1) (Human) mAb	MIH3	Hu	x	x						FCM							
Anti-CD274 (PD-L1) (Human) mAb	27A2	Hu	x							FCM				IHC			
Tim-3 Polyclonal Antibody		Hu	x								WB						
CD107a Detection Kit		Hu															
Cytotoxicity Detection Kit																	

Please visit mblintl.com to learn more about how we can help your research needs.

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