

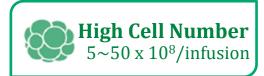
# Harnessing NK Power, Targeting Solid Tumors with Precision

Magicell®-NK is Medigen's proprietary platform for producing highly pure (≥95%), potent (≥70% cytotoxicity), and large-scale NK cells for cancer therapy. In Taiwan, it is approved for clinical use in solid tumors, and two TFDA-approved clinical trials (Phase I and Phase I/II) are currently underway. Medigen is advancing Magicell®-NK as a precision therapy to bring new hope to cancer patients.



#### **Product Specification and Development Strategy**

#### **Product Specification**







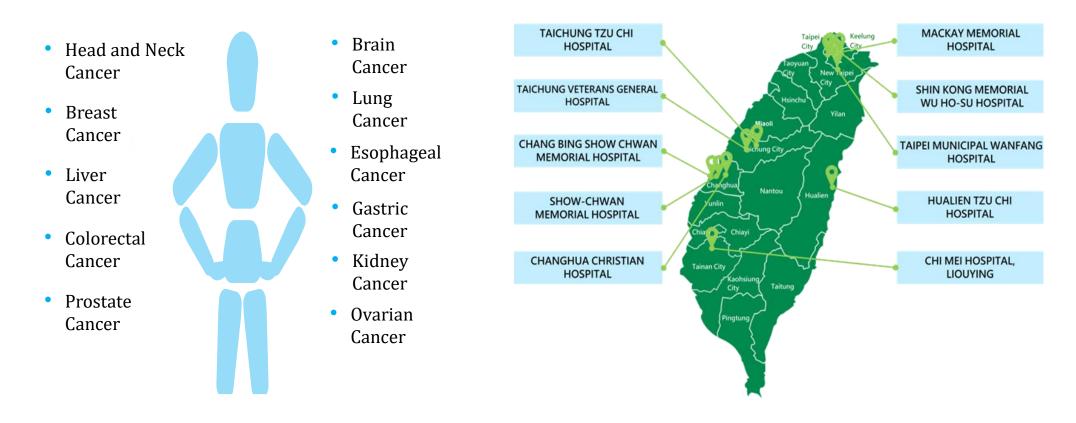
 $\rm E/T$  =1 means that there is one NK cell (effector cell) for every one target cell (e.g., cancer or infected cell) in the assay or experimental setup.

#### **Development Strategy and Status** Non-Viral Based Unmatched donors Non-Feeder-Cell Based Automation **Med Tech Auto-NK to Allo-NK Therapy** Auto-NK P1 **Auto-NK** Allo-NK P1/2 in TW (TFDA) in TW (TFDA) TW Approval (NCT05394714) (Med Tech) (NCT06730009) Cohort 3 Real Word Data Active (TW) Collection Recruiting

- Using NK cells isolated from whole blood or PBMCs as the starting material
- Using state-of-the-art cell processing with innovative culture medium recipe for cell expansion without adding any non-GMP approved material or any feeder cells



## **Treating Diverse Solid Tumors in Multiple Hospitals**



- Magicell®-NK obtained approvals for treating cancer patients under the Regulations Governing the Application of Specific Medical Examination Techniques and Medical Devices.
- Between 2020 and 2024, Magicell®-NK cells was approved for use in 10 hospitals across Taiwan to treat cancer patients.



### Clinical Trial for Autologous/Allogeneic NK Cell Therapy

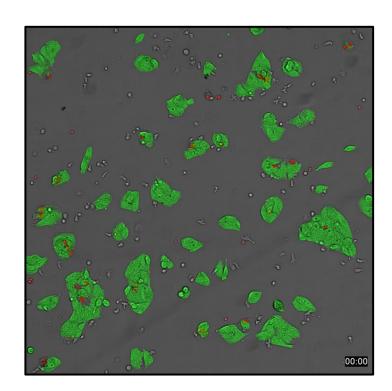
Product	Indication	Area	Non clinical	Phase I	Phase II	Phase III
OBP-301	НСС	KR/TW			1 	
	Esophageal Cancer	US/ JP				
	Gastric Cancer	US				 
	Head and Neck Cancer	US				
Autologous Magicell®-NK*	Colon Cancer	TW			 	 
Allogeneic Magicell®-NK**	PDA or CCA	TW			 	

<sup>\*</sup>Phase I trial in progress: Autologous NK cell therapy for the prevention of recurrence of colorectal cancer after surgery.

<sup>\*\*</sup>Phase I/II trial IND in progress: Allogeneic NK cell therapy for the treatment of pancreatic cancer and cholangiocarcinoma with chemotherapy.

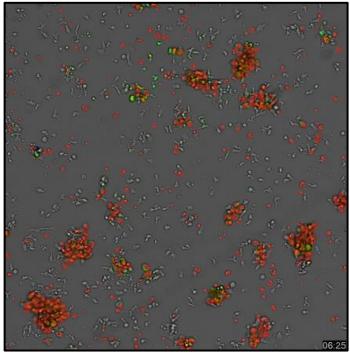


### **Activated NK Cells with High Cytotoxicity**



Time: 00hr 00min

Before
cytotoxic activity



Time: 06hr 25min
After
cytotoxic activity

Effector cell: Magicell®-NK cell

Target cell: HepG2

E/T=1

Time-lapse: 6 hours



Live cancer cells



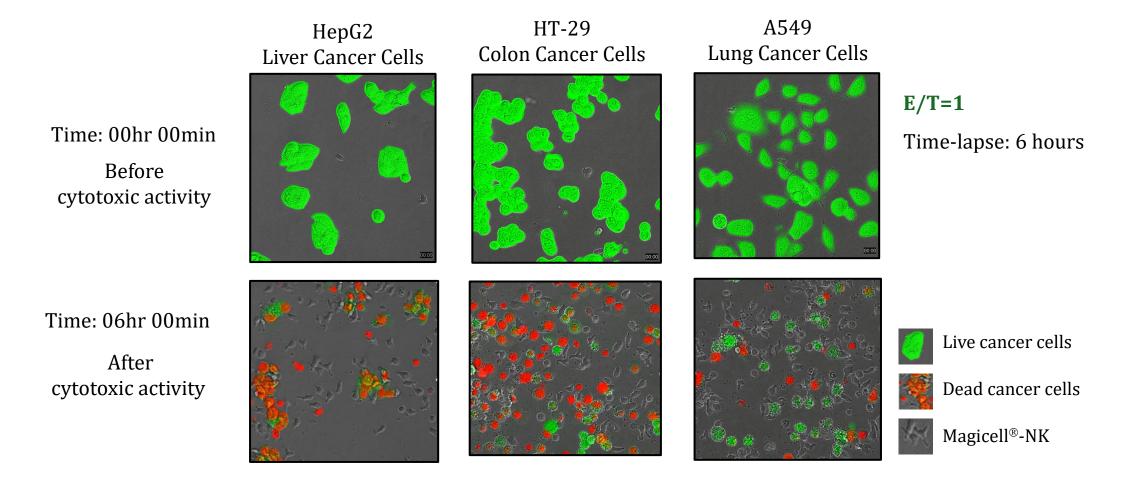
Dead cancer cells



Magicell®-NK



#### **Effective Against Various Cancer Cell Lines**





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