

Technology/ Title	NTSR1Ab/An ADC targeting NTSR1- For Cancer Therapy	
Subtitle		
Technology Type	<input type="checkbox"/> Biotechnology	<input type="checkbox"/> Device/Diagnostics
	<input checked="" type="checkbox"/> Pharmaceutical	<input type="checkbox"/> Others: _____
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Link	https://ibpr.nhri.edu.tw/zhtw/wp-content/uploads/2023/06/NCR-of-anti-NTSR1-ADC-May-30-2023-V2.pdf	
Technology Description	<p>The drug target based on NTSR1 utilizes high-specificity NTSR1 antibodies in conjunction with a tri-mannosyl antibody-drug conjugate platform technology to develop the NTSR1 Antibody-Drug Conjugate (NTSR1-ADC) for treating head and neck cancer and other cancers with high NTSR1 expression, whereas low NTSR1 expression is found among normal human tissue. The affinity of NTSR1-ADC reaches KD values of 10^{-9} M, and it has been observed that humanized anti-NTSR1 antibodies exhibit a prolonged half-life in mice, extending up to 180 hours. Additionally, efficacy verification of NTSR1-ADC has been conducted <i>in vivo</i> using the head and neck cancer cell xenograft animal model. Results indicate significant inhibition of tumor growth, underscoring the potential development of NTSR1-ADCs for the treatment of head and neck cancer.</p>	

Intellectual Property	Patent title: ANTI-HUMAN NEUROTENSIN RECEPTOR 1 ANTIBODY AND USE THEREOF USA (US17926452), Taiwan (I781647)
Key Publications	N/A
Business Opportunity	Utilizing the specific targeting ability of NTSR1 antibodies against cancer cells, combined with cytotoxic drugs to form NTSR1-ADCs, it is anticipated that the developed ADCs will demonstrate potential in combating head and neck cancer in both cell experiments and mouse models. The research achievement of the NTSR1-ADC holds promise for application in cancer therapy, potentially reducing cancer incidence and recurrence.

Anti-NTSR1 mAb



Site-specific technology

Anti-NTSR1 ADCs



Cytotoxins

