

# 94. Galectin-9 targeting mAb for solid tumours (QIMR)



## ► Asset Overview

<b>Product Type</b>	Antibody
<b>Disease Area</b>	Oncology
<b>Indication</b>	Solid tumors
<b>Current Stage</b>	Lead Optimization
<b>Target</b>	Galectin-9
<b>MoA</b>	To decreases the secretion and production of proinflammatory cytokines, increases the secretion and production of anti-inflammatory cytokines, and decreases surface expression of stimulatory molecules
<b>Brief Description</b>	<ul style="list-style-type: none"> <li>Immune therapy has great potential for the treatment of autoimmune disease. Galectin-9 (GAL9) is an S-type lectin beta-galacto side-binding protein with N- and C- terminal carbohydrate-binding domains connected by a linker peptide. GAL9 has been implicated in modulating cell-cell and cell-matrix interactions. GAL9 has been shown to bind soluble PD-L2, and at least some of the immunological effects of PD-L2 have been suggested to be mediated through binding of multimeric PD-L2 to GAL9, rather than through PD-1. However, mechanisms by which GAL9 and PD-L2 impact immune effector function are not yet fully characterized.</li> <li>Galectin-9 (GAL9) modulates anti-tumour immune cell activity via enhancing co-stimulatory signaling. Galectin-9 is overexpressed in the TME of solid tumours and associated with improved survival in some indications. Developing mAbs to enhance Galectin-9 mediated co-localization of co-stimulatory molecules.</li> </ul>
<b>Intellectual Property</b>	WO2020237320A1
<b>Publication</b>	-
<b>Inventors</b>	Michelle Wykes, Dileep K. Pulukkunat

## ► Highlights

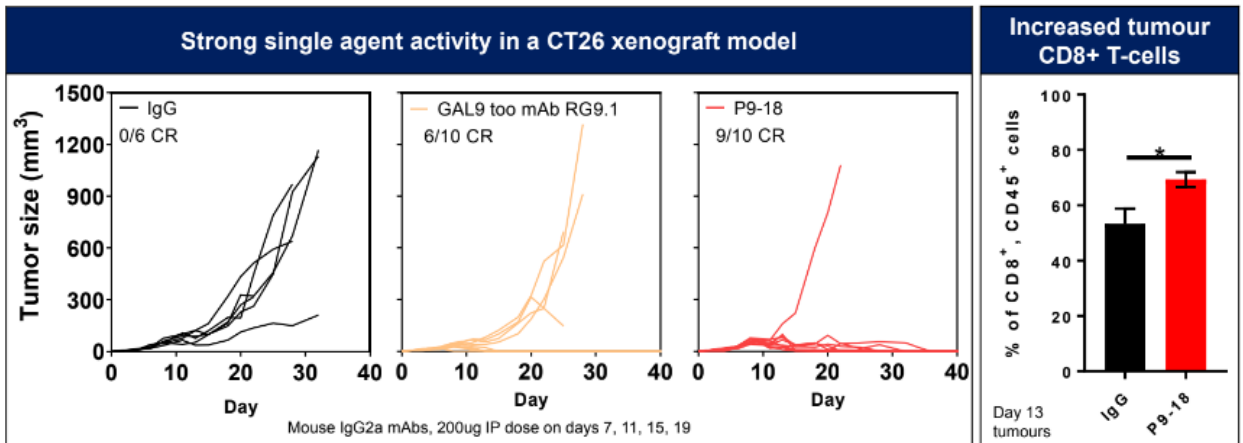
- Identified GAL9 mAbs that outperform anti-PD1 at enhancing antigen-specific human immune cell activation
- GAL9 mAbs increase co-stimulatory expression on human CD8+ T-cells in an antigen-dependent manner
- GAL9 mAb has single agent activity and increases CD8+ T-cells in CT26 tumours in vivo
- GAL9 mAb has single agent activity and outcompetes anti-PD1 in orthotopic 4T1 tumours

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## ► Key Data

**GAL9 mAb has single agent activity and increases CD8+ T-cells in CT26 tumours in vivo**



**GAL9 mAb has single agent activity and outcompetes anti-PD1 in orthotopic 4T1 tumours**

