



# **PRODUCT**

Monoclonal antibody targeting human AMHR2-ED.

#### **INDICATION**

Epithelial ovarian carcinoma.

#### VALUE PROPOSITION

- High affinity; Humanized.
- AMHR2 target present in vast majority of ovarian cancers.
- Can be used as a naked antibody or in an antibodydrug conjugate.

### **DEVELOPMENT STAGE**

In vivo preclinical proof of concept established; Humanized antibody.

# INTELLECTUAL PROPERTY

PCT/US2021/015910

nationalized in US, EP, AU, JP, CA and CN.

# **RELATED PUBLICATIONS**

Mazumder, Suparna et al. Oncotarget vol. 11,20 1894-1910. 19 May. 2020. PMID: <u>32499873.</u>

Mazumder S, et al. Cancer Prev Res (Phila). 2017 Nov;10(11):612-624. PMID: <u>29093011.</u>

#### **CONTACT INFORMATION**

Joe Barone Director, Business Development baronej2@ccf.org 631,278,5858

# **Antibody Therapeutic for Ovarian Cancer**

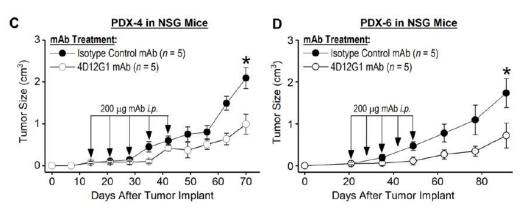
Vincent Tuohy Laboratory - Cleveland Clinic Lerner Research Institute

## **OPPORTUNITY**

- Occurring primarily in post-menopausal women, EOC is typically diagnosed at late stages resulting in a high recurrence rate and low five-year overall survival rate.
- The anti-Mullerian hormone receptor II (AMHR2) is expressed in most epithelial ovarian carcinoma (EOC).
- AMHR2 is normally expressed in ovarian tissue but turned off in postmenopausal ovaries.

# **SOLUTION**

- Cleveland Clinic has developed a monoclonal antibody against AMHR2.
- Vaccination against AMHR2-ED has demonstrated inhibition of the growth of murine EOCs through CD4+ T- cells that facilitate B-cells to produce AMHR2-ED-specific IgG.
- A panel for AMHR2-ED was developed to find an antibody that would mimic the clinical effectiveness of the polyclonal IgG response resulting from AMHR2-ED vaccination.
- Treatment with the humanized AMHR2-ED antibody demonstrated apoptosis in EOCs.



Reduction in tumor growth in ovarian PDX models following treatment with AMHR2-ED mAb

