



HERG-Specific Antisera

WARF: P04019US

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing polyclonal antibodies against HERG1.

Overview

The gene *HERG1* encodes a potassium-selective ion channel important in maintaining normal cardiac rhythm and cell growth.

The Invention

UW-Madison researchers have developed polyclonal IgG antibodies against 15-amino acid peptide sequences unique to HERG1. The peptide sequences were selected based on their antigenicity, surface probability and conservation among species. These sera have been validated for use in Western blot, immuno-precipitation and histological characterization of native and expressed HERG channels. In validation tests, they strongly outperformed commercially available antibodies in terms of sensitivity, selectivity and versatility for a wide range of uses.

Applications

- Determining the expression profile and distribution of HERG isoforms in tissues, cells and cellular components
- Identifying HERG channel composition, subunit stoichiometry and protein/protein interactions
- Determining the surface expression and stability of channels comprised of one or both HERG isoforms
- Studying the role of HERG channels in arrhythmia and cancer

Key Benefits

- More sensitive, selective and versatile than currently available antibodies

Additional Information

For More Information About the Inventors

- [Gail Robertson](#)

Tech Fields

- [Research Tools : Antibodies](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854

