

rapid regulation of neuronal excitability and the cellular responses to stimulation. This polyclonal antibody was generated by using a purified fusion protein containing the regulator of guanine nucleotide-binding protein signaling (RGS) C-terminal region of bovine RGS. The antibody specifically recognizes RGS7 of mouse, rat, and human origin. The antibody is useful for studying the expression, functions, and interactions of RGS7 by Western blot and immunofluorescence analysis.

#### *Applications:*

- *Basic research tool for the study of RGS7.* Reagent for diagnostic applications such as Western Blotting, ELISA, immunofluorescence and immunohistochemistry in fixed tissue samples.

- *Reagent for biochemical techniques such as immunoprecipitation.*

Development of diagnostics or therapeutics for diseases of the nervous system linked to RGS protein-regulated signaling including Parkinson's disease, schizophrenia, seizure disorders, multiple sclerosis, and opiate addiction.

*Inventors:* William F. Simonds and Jianhua Zhang (NIDDK).

#### **Relevant Publications**

1. Rojkova AM, Woodard GE, Huang TC, Combs CA, Zhang JH, Simonds WF. Ggamma subunit-selective G protein beta 5 mutant defines regulators of G protein signaling protein binding requirement for nuclear localization. *J Biol Chem.* 2003 Apr 4;278(14):12507–12512. [PMID: 12551930]

2. Nini L, Waheed AA, Panicker LM, Czapiga M, Zhang JH, Simonds WF. R7-binding protein targets the G protein beta 5/R7-regulator of G protein signaling complex to lipid rafts in neuronal cells and brain. *BMC Biochem.* 2007 Sep 19;8:18. [PMID: 17880698]

3. Panicker LM, Zhang JH, Posokhova E, Gastinger MJ, Martemyanov KA, Simonds WF. Nuclear localization of the G protein beta 5/R7-regulator of G protein signaling protein complex is dependent on R7 binding protein. *J Neurochem.* 2010 Jun;113(5):1101–1112. [PMID: 20100282]

*Patent Status:* HHS Reference No. E-077-2011/0—Research Tool. Patent protection is not being pursued for this technology.

*Licensing Status:* This technology is available as a research tool under a Biological Materials License.

*Licensing Contact:* Jaime Greene, M.S.; 301-435-5559; [greenajaime@mail.nih.gov](mailto:greenajaime@mail.nih.gov).

*Collaborative Research Opportunity:* The NIDDK Metabolic Diseases Branch is seeking statements of capability or interest from parties interested in

collaborative research to further develop, evaluate, or commercialize polyclonal antibodies against the Regulator of G protein Signaling Protein 7 (RGS7). Please contact Anna Z. Amar at 301-451-2305 or [aa54d@nih.gov](mailto:aa54d@nih.gov) for more information.

#### **Oligonucleotide Compounds that Enhance Immunity to Cancer and Reduce Autoimmunity**

##### *Description of Technology:*

Suppressive cells, including macrophages and other myeloid-derived suppressor cells, regulatory T cells, and dendritic cells (DCs), have been attributed to tumor growth. DCs in particular are known to be associated with the induction of T cell tolerance in cancer, but molecular mechanisms that control DC dysfunction are complex and a better understanding of DC mechanisms in tumors is needed. Recently FOXO3, originally identified as a tumor suppressor, was associated with DC dysfunction. Additionally, therapeutics targeting FOXO3 are known to be effective at killing many tumors types, synergize with traditional therapies, and show efficacy against tumors that are otherwise resistant to conventional treatments.

The researchers at the NIH have demonstrated for the first time that FOXO3 expression by DC coincides with expression of suppressive genes that negatively regulate T cell function. They have also demonstrated that silencing FOXO3 simultaneously changes DC function, eliminating tolerogenicity and enhancing their immunostimulatory capacity. Specifically, the inventors have developed siRNAs or oligonucleotides that enhance an immune response and neutralize the activity of FOXO3 in DCs by converting suppressive cells into immunostimulatory cells. This novel approach could be applied to cancer vaccines, where dendritic cells could be treated with these small molecules prior to use in clinical therapies. Alternatively, small molecules that stimulate FOXO3 expression could be used for inducing immune suppression for autoimmune diseases like type I diabetes or multiple sclerosis.

##### *Applications*

- An adjuvant to neutralize FOXO3 and elicit a more potent response to cancer immune-based therapies, either at the time of vaccination or during an on-going anti-tumor immune response.
- Suppressing an immune response through the induction of FOXO3 expression to prevent tissue-specific autoimmune diseases like type I Diabetes or Multiple sclerosis, where

known target antigens have been identified.

#### **Advantages**

- The ability to treat multiple tumor types linked to FOXO3 expression.
- siRNAs can be delivered to different organs with minimal cytotoxicity.
- Through the modulation of FOXO3 gene expression, therapeutics for both cancer and autoimmune diseases can be developed.

*Development Status:* Pre-clinical proof of principle.

*Inventors:* Arthur A. Hurwitz (NCI) *et al.*

*Publication:* Watkins SK, Zhu Z, Riboldi E, Shafer-Weaver KA, Stagliano KE, Sklavos MM, Ambs S, Yagita H, Hurwitz AA. FOXO3 programs tumor-associated DCs to become tolerogenic in human and murine prostate cancer. *J Clin Invest.* 2011 Apr 1;121(4):1361–1372. [PubMed: 21436588]

#### **Patent Status**

- U.S. Provisional Application No. 61/293,098 filed January 7, 2010 (HHS Reference No. E-086-2010/0-US-01).

- PCT Application No. PCT/US2011/020315 filed January 6, 2011 (HHS Reference No. E-086-2010/0-PCT-02).

*Licensing Status:* Available for licensing.

*Licensing Contact:* Whitney Hastings; 301-451-7337; [hastingw@mail.nih.gov](mailto:hastingw@mail.nih.gov).

*Collaborative Research Opportunity:* The National Cancer Institute Cancer and Inflammation Program is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate, or commercialize agents that both block FOXO3 function and enforce FOXO3 expression. Please contact John Hewes, PhD at 301-435-3121 or [hewesj@mail.nih.gov](mailto:hewesj@mail.nih.gov) for more information.

Dated: June 14, 2011.

**Richard U. Rodriguez,**

*Director, Division of Technology Development and Transfer, Office of Technology Transfer, National Institutes of Health.*

[FR Doc. 2011-15477 Filed 6-21-11; 8:45 am]

**BILLING CODE 4140-01-P**

## **DEPARTMENT OF HEALTH AND HUMAN SERVICES**

### **National Institutes of Health**

### **National Institute of Diabetes and Digestive and Kidney Diseases; Notice of Closed Meetings**

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), notice is hereby given of the following meetings.

The meetings will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel, Sickle Cell and CKD Ancillary Studies.

*Date:* July 18, 2011.

*Time:* 10 to 11 a.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Robert Wellner, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 706, 6707 Democracy Boulevard, Bethesda, MD 20892-5452, 301-594-4721, [rw175w@nih.gov](mailto:rw175w@nih.gov).

*Name of Committee:* National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel, Pediatric Endocrinologist K12 Programs.

*Date:* July 18, 2011.

*Time:* 1 to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Robert Wellner, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, ROOM 706, 6707 Democracy Boulevard, Bethesda, MD 20892-5452, 301-594-4721, [rw175w@nih.gov](mailto:rw175w@nih.gov).

*Name of Committee:* National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel, Feasibility Studies for Clinical Trials in Type 1 Diabetes.

*Date:* July 18, 2011.

*Time:* 12 to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Michele L. Barnard, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 753, 6707 Democracy Boulevard, Bethesda, MD 20892-2542, (301) 594-8898, [barnardm@extra.niddk.nih.gov](mailto:barnardm@extra.niddk.nih.gov).

*Name of Committee:* National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel, Recruitment Determinants Ancillary Studies.

*Date:* July 28, 2011.

*Time:* 1 to 2 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Michele L. Barnard, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 753, 6707 Democracy Boulevard, Bethesda, MD 20892-2542, (301) 594-8898, [barnardm@extra.niddk.nih.gov](mailto:barnardm@extra.niddk.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.847, Diabetes, Endocrinology and Metabolic Research; 93.848, Digestive Diseases and Nutrition Research; 93.849, Kidney Diseases, Urology and Hematology Research, National Institutes of Health, HHS)

Dated: June 16, 2011.

**Jennifer S. Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

[FR Doc. 2011-15637 Filed 6-21-11; 8:45 am]

**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### Center for Scientific Review; Notice of Closed Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), notice is hereby given of the following meetings.

The meetings will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Molecular Genetics.

*Date:* July 6, 2011.

*Time:* 2 p.m. to 4 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Richard A Currie, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 1108, MSC 7890, Bethesda, MD 20892, (301) 435-1219, [currieri@csr.nih.gov](mailto:currieri@csr.nih.gov).

This notice is being published less than 15 days prior to the meeting due to the timing limitations imposed by the review and funding cycle.

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Member Conflict: Cell Biology.

*Date:* July 12-13, 2011.

*Time:* 8 a.m. to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* Elena Smirnova, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5187, MSC 7840, Bethesda, MD 20892, 301-435-1236, [smirnov@csr.nih.gov](mailto:smirnov@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, PAR 11-081: Shared instrumentation: X-ray facilities.

*Date:* July 14-15, 2011.

*Time:* 8:30 a.m. to 12 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* Arnold Revzin, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4146, MSC 7806, Bethesda, MD 20892, (301) 435-1153, [revzina@csr.nih.gov](mailto:revzina@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, RFA-OD-11-001: Lasker Clinical Research Scholars Program (SI2).

*Date:* July 18, 2011.

*Time:* 8 a.m. to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Bethesda North Marriott Hotel & Conference Center, 5701 Marinelli Road, Bethesda, MD 20852.

*Contact Person:* Syed M Quadri, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6210, MSC 7804, Bethesda, MD 20892, 301-435-1211, [quadris@csr.nih.gov](mailto:quadris@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Shared Instrumentation: Flow Cytometry.

*Date:* July 26-27, 2011.

*Time:* 8 a.m. to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* David Balasundaram, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5189, MSC 7840, Bethesda, MD 20892, 301-435-1022, [balasundaramd@csr.nih.gov](mailto:balasundaramd@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Shared Instrumentation: Mass Spectrometers.

*Date:* July 27-28, 2011.

*Time:* 8 a.m. to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* St. Gregory Hotel, 2033 M Street, NW., Washington, DC 20036.

*Contact Person:* Nuria E Assa-Munt, PhD, Scientific Review Officer, Center for