IIG12-1
(Only cell products will be distributed.)

INVESTIGATOR
Name: Kevin P. Campbell
Address: University of Iowa, Dept. of Physiology & Biophysics, 4283 CBRB, Iowa City, IA 52242

IMMUNOGEN
Substance
Name: skeletal muscle triads
Origin: rabbit
Chemical Composition: adult
Developmental Stage: adult

IMMUNIZATION PROTOCOL
Donor Animal
Species: mouse
Strain: BALB/c
Sex: female
Organ and tissue: spleen
Immunization
Dates immunized: 0.5 mg
Amount of antigen: IP
Route of immunization: Freund’s complete

FUSION
Date
Myeloma cell line: mouse
Species: NS-1
Designation: NS-1

MONOCLONAL ANTIBODY
Isotype: IgG1
Specificity: Cell binding
Immunohistology: yes
Antibody competition: yes
Species Specificity: rabbit, mouse, human

ANTIGEN
Chemical properties
Molecular weight: 95 kDa (Triadin)
Characterization
Immunoprecipitation: yes
Immunoblotting: yes
Purification: Amino acid sequence analysis
Functional effects: Immunohistochemistry: yes

PUBLICATIONS:


(Continued)
Imagawa, T., Leung, A.T., and Campbell, K.P. (1987). Phosphorylation of the 1,4-dihydropyridine receptor of the voltage-dependent 
Ca^{2+} channel by an intrinsic protein kinase in isolated triads from rabbit skeletal muscle. J. Biol. Chem. 262(17), 8333-8339.
localization of a major junctional sarcoplasmic reticulum glycoprotein (triadin). J. Biol. Chem. 268, 12637-12645.
unique to skeletal muscle junctional sarcoplasmic reticulum. J. Biol. Chem. 269, 28359-28365.
Guo, W., Jorgensen, A.O., Jones, L.R., and Campbell, K.P. (1996). Biochemical characterization and molecular cloning of cardiac 
 nitrosylation enhances Ca^{2+} activation of RyR1 channels. J. Biol. Chem. 278, 42927-42935.

ACKNOWLEDGMENTS STATEMENT

We have been asked by NICHD to ensure that all investigators include an acknowledgment in publications that benefit from the use of 
the DSHB's products. We suggest that the following statement be used:

“The (select: hybridoma, monoclonal antibody, or protein capture reagent,) developed by [Investigator(s) or Institution] was 
obtained from the Developmental Studies Hybridoma Bank, created by the NICHD of the NIH and maintained at The University 
of Iowa, Department of Biology, Iowa City, IA 52242.”

Please send copies of all publications resulting from the use of Bank products to:

Developmental Studies Hybridoma Bank
Department of Biology
The University of Iowa
028 Biology Building East
Iowa City, IA  52242