**INVESTIGATOR**

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**IMMUNOGEN**

**Substance**

- **Name**: chicken Na, K-ATPase  
- **Origin**: purified from chicken kidney with monoclonal antibody 24  
- **Chemical Composition**: complex of $\alpha_1$- and $\beta_1$-subunits  
- **Developmental Stage**: adult

**IMMUNIZATION PROTOCOL**

- **Donor Animal**
  - **Species**: mouse  
  - **Strain**: BALB/cJ  
  - **Sex**:  
  - **Organ and tissue**: spleen  
- **Immunization**
  - **Dates immunized**:  
  - **Amount of antigen**:  
  - **Route of immunization**: intraperitoneal; tail vein boost  
  - **Adjuvant**: Freund's complete/incomplete; antigen in saline for tail vein injection

**FUSION**

- **Date**:  
- **Myeloma cell line**
  - **Species**: mouse  
  - **Designation**: SP2/0 Ag8

**MONOCLONAL ANTIBODY**

- **Isotype**: IgG1, kappa light chain  
- **Specificity**:  
  - **Cell binding**: cytosolic epitope on the $\alpha$-subunit of the Na, K-ATPase; all isoforms  
  - **Immunohistology**:  
  - **Antibody competition**:  
  - **Species Specificity**: avian; mammalian; frog; insect; fish

**ANTIGEN**

- **Chemical properties**: Na, K-ATPase $\alpha$-subunit; polypeptide directed  
- **Molecular weight**: $\alpha$-subunit core polypeptide 1020 aa  
- **Characterization**
  - **Immunoprecipitation**: weak; requires denaturation of Na, K-ATPase  
  - **Immunoblotting**: great  
  - **Purification**: Amino acid sequence analysis
    - **Functional effects**: none known  
    - **Immunohistochemistry**: good on cryosections; poor for lightly-fixed cells in tissue culture; seems to require denaturation of Na, K-ATPase; fixation effects unknown

**PUBLICATIONS**:  
(Continued)


ACKNOWLEDGMENTS STATEMENT

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