



# The Nitrate Elimination Co., Inc.

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## **Monoclonal Antibody to *Zea mays* (Corn) leaf Nitrate Reductase NADH:NaR EC 1.6.6.1**

### **Product Number Zm2-69**

Protein-A purified Anti-NaR IgG Price: **\$75/100 µg IgG**

### **Product Number Zm2-69-Gel**

IgG bound to Agarose Price: **\$500/0.5 ml gel**

### **Source**

Zm2-69 is a mouse monoclonal IgG2ak antibody derived by fusion of NS-1 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with homogeneous *Zea mays* corn leaf NADH:NaR.

### **Product**

The IgG has been purified from ascites fluid by Protein A affinity chromatography. It is supplied as a solution of 0.5mg/ml in PBS (phosphate buffered saline). Product Zm2-69-Gel is the purified Antibody conjugated to agarose, supplied as 1 mg Antibody/ml gel.

### **Storage**

Store purified Antibody Zm2-69 at -20°C in working aliquots. Avoid repeated freezing and thawing.

Store Agarose-bound Antibody Zm2-69-Gel at 4°C. Do not freeze. Azide at 0.01% may be added for long term storage.

### **Specificity**

Zm2-69 will not cross-react with proteins other than NADH:NaR. Zm2-69 is effective for detection of monocot NADH:Nitrate Reductases in ELISA and dot blot assays. It is also suitable for EIA and immunoprecipitation assays. It is not suitable for Western blot analysis of SDS-denatured NaR.

Zm2-69-Gel is suitable for purification of most monocot NADH:NaR.

### **Working Dilutions**

Working dilutions will vary with application. In general, begin with a maximum concentration of 5 µg Zm2-69/ml.

### **Reference**

Hyde, GE, JA Wilberding, AL Meyer, ER Campbell & WH Campbell 1989. Monoclonal antibody-based immunoaffinity chromatography for purifying corn and squash NADH:nitrate reductases. *Plant Molecular Biology* **13**: 233-246.