



# The Nitrate Elimination Co., Inc.

334 Hecla St., Lake Linden MI 49945 USA  
Tel: 1.906.296.1115 Fax: 1.906.296.8003  
Web: [www.nitrate.com](http://www.nitrate.com) Email: [info@nitrate.com](mailto:info@nitrate.com)  
Toll Free: 1.888.NITRATE

## Monoclonal Antibody to *Cucurbita maxima* (Squash) Nitrate Reductase NADH:NaR EC 1.6.6.1

### Product Number Cm15-11

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

### Product Number Cm15-11-Gel

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

### Source

Cm15-11 is a mouse monoclonal IgG2b antibody derived by fusion of SP 2/0 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with *Cucurbita maxima* squash cotyledon NADH:NaR purified by blue Sepharose affinity chromatography.

### 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 Cm15-11-Gel is the purified Antibody conjugated to agarose, supplied as 1 mg Antibody/ml gel.

### Storage

Store purified Antibody Cm15-11 at -20°C in working aliquots. Avoid repeated freezing and thawing.

Store Agarose-bound Antibody Cm15-11-Gel at 4°C. Do not freeze. Azide at 0.01% may be added for long term storage.

### Specificity

Cm15-11 will not cross-react with proteins other than nitrate reductase. Cm15-11 is effective for detection of dicot NADH:NaR in ELISA and dot blot assays, and for EIA and immunoprecipitation experiments. It is not suitable for Western blot analysis of SDS-denatured nitrate reductase.

Cm15-11-Gel is suitable for purification of most dicot NADH:NaR.

### Working Dilutions

Working dilutions will vary with application. In general, begin with a maximum concentration of 5 µg Cm15-11/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.