# Anti-Mlok1 Prokaryotic Cyclic Nucleotide-Modulated Potassium Channel mAbs

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## ABSTRACT

Monoclonal antibodies against the prokaryotic cyclic nucleotide-modulated ion channel Mlok1.

## FULL DESCRIPTION

Researchers at the University of California, Davis raised the N17 series of monoclonal antibodies N17/1, N17/2, N17/17, N17/24, and N17/27 against the full-length Mlok1 protein. These antibodies specifically recognize the Mlok1 protein expressed in transfected cells and they bind with various affinities to the purified Mlok1 protein in vitro as assayed with gel filtration. The fragment antigen binding portion of the antibodies (Fabs) are isolated by papain digestion of these mAbs, purified, and complexed with purified Mlok1 protein. The complex is further size-purified and used in crystallization trials. The presence of the bound Fab is intended to increase crystallographic lattice contacts and help the protein crystallize easier than in the absence of bound Fab. This will theoretically lead to the determination of an atomic structure for the Mlok1 protein.

Hybridomas for these monoclonal antibodies are available for licensing.

## APPLICATIONS

- Cancer prevention research.

## FEATURES/BENEFITS

- The fragment antigen binding helps with the crystallization of protein that would otherwise not crystallize
- Only known-available monoclonal antibodies for this particular ion channel protein

## RELATED TECHNOLOGIES

- Neuronal Monoclonal Antibodies (NeuroMabs)

## ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Neuronal Monoclonal Antibodies (NeuroMabs)

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## OTHER INFORMATION

**KEYWORDS**

monoclonal antibodies, mAbs, Mlok1

**CATEGORIZED AS**

- **Materials & Chemicals**
  - Biological
- **Medical**
  - Diagnostics
  - Therapeutics
- **Research Tools**
  - Antibodies
  - Reagents

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