

## Monoclonal Antibody to Nonspecific Cytotoxic Cells - Purified

**Catalog No.:** SM5046P

**Quantity:** 0.2 mg

**Concentration:** 0.73 mg/ml

**Background:** Non-specific cytotoxic cells (NCCs) in teleosts and their evolutionary homologue are a subpopulation of lymphocytes with properties that distinguish them from either B- or T-cells. One such property is that NCC/natural killer (NK)/lymphokine activated killer (LAK) cells express spontaneous, non-major histocompatibility complex restricted cytotoxic activity. NCC and LAK lyse a variety of transformed murine and human B-cell, T-cell and myeloid targets. A 32 kDa membrane protein [non-specific cytotoxic cell receptor protein (NCCRP-1)] expressed by NCC and certain mammalian NK/LAK cells mediates this cytotoxicity. NCCRP-1 is evolutionarily conserved and is found in species ranging from marine and freshwater teleosts to higher mammals.

**Host / Isotype:** Mouse / IgM

**Recommended Isotype Controls:** SM13P

**Clone:** 5C.6

**Immunogen:** Purified NCC cells from catfish.

**Format:** **State:** Liquid purified Ig fraction.

**Buffer System:** PBS with 0.05% sodium azide as preservative and 1 mg/ml BSA as stabilizer

**Applications:** Western Blot: 10 µg/ml, detects a 32 kDa protein representing nonspecific cytotoxic cell receptor protein.

ELISA.

Flow Cytometry.

Immunoprecipitation.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** This antibody detects nonspecific cytotoxic cells (NCC) and tilapia tissue and also detects natural killer/lymphokine activated killer (KN/LAK) cells.

**Species:** Bovine, Canine, Equine, Fish, Porcine, Rat.

Other species not tested.

**Storage:** Aliquot and store the antibody at -20°C.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

- General Readings:**
1. Mol. Immunol. 34:955-965, 1997.
  2. Cell. Immunol. 187:19-26, 1998.
  3. Natural Immunity 16:18-26, 1998.
  4. Dev. Comp. Immunol. 23:521-532, 1999.