



## PRODUCT DATA SHEET

**Product:** Anti-Nonspecific Cytotoxic Cell, clone 5C.6

**Cat. No.:** MC-348 (200 µg)

**Description:**

Non-specific cytotoxic cells (NCCs) in teleosts and their evolutionary homologue are a sub-population 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 (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.

**Specificity:**

Detects NCC cells from catfish and tilapia tissues and also detects NK/LAK cells from rat, bovine, equine, canine and porcine tissues.

**Isotype:**

Mouse IgM

**Species Reactivity:**

Many.

**Immunogen:**

Purified NCC cells from catfish

**Format:**

200 µg of purified IgM with 1 mg/mL protein stabilizer and 0.05% sodium azide.

**Storage:**

Store at -20°C. Aliquot to avoid repeated freeze/thaw cycles.

**Applications and Suggested Dilutions:**

- ELISA
- Flow cytometry
- Immunoprecipitation
- Western blot: Use at 10 µg/mL. Detects a 32 kDa protein representing NCCRP-1.
- Cytotoxicity assays: Use under saturated conditions to inhibit target cell conjugation.

The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.