

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 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 (NCCRP-1) expressed by NCC and certain mammalian NK/LAK cells mediates this cytotoxicity. NCCRP-1 evolutionarily is 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 satuarated 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.