
Mouse Anti-Human CD56 (NCAM)-PE/Cy5 conjugate

Catalog# **CD56PC-25** **Size** **25 tests**

PRODUCT INFORMATION

Antigen: KG-1 human acute myelogenous leukaemia cell line.
ISOTYPE: Mouse IgG2a
Product Forms: Purified, PE/Cy5 conjugation.
Reactivity **Human, Cross-Reactivity*: Cattle (Bovine, Cow), Swine (Pig, Porcine)**

DESCRIPTION

CD56 (NCAM, neural cell adhesion molecule) is a transmembrane glycoprotein of immunoglobulin family serving as adhesive molecule which is ubiquitously expressed in nervous system, usually as 120 kDa, 140 kDa or 180 kDa isoform, and it is also found on T cells and NK cells. Polysialic modification results in reduction of CD56-mediated cell adhesion and is involved in cell migration, axonal growth, pathfinding and synaptic plasticity. CD56 is a widely used neuroendocrine marker with a high sensitivity for neuroendocrine tumours and ovarian granulosa cell tumours.

The antibody MEM-188 reacts with a 180 kDa isoform of CD56 (NCAM) characteristic for leukocytes. It has been suggested that the antibody MEM-188 could react with rhesus monkey lymphocytes. Reactivity with other NCAM isoforms has not been tested.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with, R-PE/Cy5 under optimum conditions. It is supplied in PBS, pH 7.5 and 0.05% azide.

USAGE

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis. The conjugated reagent (R-PE/Cy5) is tested for flow cytometric analysis using 10 ul/10⁶ cells or 100µl peripheral blood cells. It may be recommended to use more antibody (20 ul/10⁶ cells) for better sensitivity or in cells with low concn of antigen.

STORAGE

For conjugated forms, storage at 4oC, should not be frozen and avoid prolonged exposure to light.

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Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, S an Antonio, T X 7 8 24 4 , U S A;

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400
Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com