

anti-human CD53 FITC-conjugated

The antibody HI29 recognizes a 32-40 kDa type III, tetraspan membrane glycoprotein called TM4. CD53 antigen appears to be the marker with the strictest specificity for hematopoietic cells expressing all leukocytes including plasma cells, but not on platelets, erythrocytes and non-hematopoietic cells. The antibody HI29 mediates signal transduction.

CD53 is a tetraspanin family transmembrane glycoprotein expressed in the lymphoid-myeloid lineage. This molecule has been reported to form complexes with other leukocyte surface proteins such as CD2, CD19, CD21, MHC II, VLA-4 or tetraspanins CD37, CD81 and CD82, thus probably modulating various signaling processes. CD53 is involved in radioresistance of tumour cells and its triggering has anti-apoptotic effect. In thymus, CD53 is up-regulated in response to positive selection signals during T cell development, and is strongly expressed upon macrophage exposure to bacterial lipopolysaccharide, whereas stimulation of neutrophils results in down-regulation of CD53 expression.

Clone:	HI29
Isotype:	Mouse IgG1
Physical state:	Liquid for direct use
Form:	purified antibody conjugated with Fluorescein isothiocyanate (FITC)
Buffer:	PBS containing 1% BSA and 0.1% sodium azide (pH 7.2)
Storage Instruction:	Store at 4 °C. Do not freeze. Avoid prolonged exposure to light
Application:	Flow Cytometry
Reference:	Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).
Quantity:	0.1 mg
Order N°:	H12512F

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

This material is offered for **research only**. Not for use in human. For in vitro use only. EuroBioSciences will not be held responsible for patent infringement or other violations that may occur with the use of our products.