

CD56 Monoclonal Antibody (C5.9), FITC

Catalog Number MA1-12144

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG2b	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution * Assay-dependent
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	C5.9		
Immunogen	human cell line KG-1a		
Conjugate	FITC		
Form	Liquid		
Concentration	0.025 mg/mL		
Purification	purified		
Storage buffer	PBS with 0.2% carrier protein		
Contains	0.08% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

CD56 (NCAM, neural cell adhesion molecule) is a transmembrane glycoprotein of the immunoglobulin family that serves as an adhesive molecule and is ubiquitously expressed in the nervous system in isoforms ranging from 120-180 kDa. CD56 is found on T cells and NK cells, and is involved in cell migration, axonal growth, pathfinding and synaptic plasticity. Polysialic modification results in reduction of CD56-mediated cell adhesion. Through its extracellular region, CD56 mediates homophilic and heterophilic interactions by binding extracellular matrix components such as laminin and integrins. CD56 is expressed on most neuroectodermal derived cell lines, tissues and neoplasms such as retinoblastoma, medulloblastoma, astrocytomas and neuroblastoma. Further, CD56 is a widely used neuroendocrine marker with a high sensitivity for neuroendocrine tumors and ovarian granulosa cell tumors. Diseases associated with CD56 dysfunction include rabies and blastic plasmacytoid dendritic cell neoplasms.

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