Datasheet for ABIN5691114
anti-CD56 antibody

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Overview

Quantity:	0.1 mg
Target:	CD56 (NCAM1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Immunogen:	123A8 is a mouse monoclonal IgG1 antibody derived by fusion of mouse myeloma cells with cells from a mouse immunized with a membrane preparation of a human small cell lung carcinoma
Clone:	123A8
Isotype:	IgG1
Specificity:	The antibody 123A8 is directed against human NCAM/CD56 and reacts with an epitope within the membrane-proximal region of the NCAM molecule. The antibody binds to all NCAM isoforms.

Target Details

Target:	CD56 (NCAM1)

Target Details

Alternative Name:	NCAM / CD56, neural cell adhesion molecule-1 (NCAM1 Products)
Background:	NCAM / CD56, as a member of the immunoglobulin superfamily of adhesion molecules is characterized by several immunoglobulin (Ig)-like domains. The extracellular part of NCAM consists of five of these Ig domains and two fibronectin type III homology regions. NCAM is encoded by a single copy gene composed of 26 exons. However, at least 20-30 distinct isoforms can be generated by alternative splicing and by post-translational modifications, such as sialylation. During sialylation, polysialic acid (PSA) carbohydrates are attached to the extracellular part of NCAM. Through its extracellular region, NCAM mediates homophilic interactions. In addition, NCAM can also undergo heterophilic interactions by binding extracellular matrix components, such as laminin, or other cell adhesion molecules, such as integrins. NCAM can be found in central and peripheral nerve cells, neuroendocrine tissues and at the surface of NK-cells. Also, NCAM is present in malignancies derived from these tissues and cells.

Application Details

Application Notes:	The 123A8 antibody is suitable for the detection of human NCAM/CD56 by flow cytometry, immunocytochemistry, ELISA, western blotting and immunoprecipitation. The antibody is also suitable for the detection of human NCAM/CD56 by immunohistochemistry on frozen and paraffin embedded tissues. Staining of paraffin embedded tissues with 123A8 is possible following heat mediated antigen retrieval of paraffin sections using 10 mM citrate buffer, pH 6.0. Optimal antibody dilutions for the different applications should be determined by titration.
Restrictions:	For Research Use only

Handling

Buffer:	Each vial contains 100 µg 1 mg/mL purified monoclonal antibody in phosphate buffered saline (PBS) containing 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C, or in small aliquots at -20°C.