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Datasheet for ABIN335373
anti-CD56 antibody

2 Images   **9** Publications

Overview

Quantity:	0.1 mg
Target:	CD56 (NCAM1)
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD56 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	RNL-1 is a mouse monoclonal IgG1 antibody derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with the small cell lung cancer cell line NCI-H82.
Clone:	RNL-1
Isotype:	IgG1
Specificity:	Human and mouse.
Purification:	Purified

Target Details

Target:	CD56 (NCAM1)
Alternative Name:	NCAM / CD56 (NCAM1 Products)

Target Details

Background:	NCAM, 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 posttranslational 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.

Application Details

Application Notes:	RNL-1 was defined as a cluster I antibody during the Second International Workshop on Small Cell Lung Cancer (SCLC) Antibodies. RNL-1 recognizes NCAM which is present in small cell lung cancer (SCLC) and lung carcinoids. RNL-1 is suitable for immunocytochemistry and immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration, recommended range is 1:100 - 1:200 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent.
Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:	Mahabir, Chatterjee, Misquitta, Chatterjee, Gerlai: "Lasting changes induced by mild alcohol exposure during embryonic development in BDNF, NCAM and synaptophysin-positive neurons quantified in adult zebrafish." in: **The European journal of neuroscience**, Vol. 47, Issue 12, pp. 1457-1473, (2018) (PubMed).
	Hens, Nuydens, Geerts, Senden, Van de Ven, Roebroek, van de Velde, Ramaekers, Broers: " Neuronal differentiation is accompanied by NSP-C expression." in: **Cell and tissue research**, Vol. 292, Issue 2, pp. 229-37, (1998) (PubMed).
	Kwa, Wesseling, Verhoeven, van Zandwijk, Hilkens: "Immunoscintigraphy of small-cell lung

Publications

cancer xenografts with anti neural cell adhesion molecule monoclonal antibody, 123C3: improvement of tumour uptake by internalisation." in: **British journal of cancer**, Vol. 73, Issue 4, pp. 439-46, (1996) (PubMed).

Gerardy-Schahn, Eckhardt: "Hot spots of antigenicity in the neural cell adhesion molecule NCAM." in: **International journal of cancer. Supplement = Journal international du cancer. Supplement**, Vol. 8, pp. 38-42, (1994) (PubMed).

Broers, Mijnheere, Rot, Schaart, Sijlmans, Boerman, Ramaekers: "Novel antigens characteristic of neuroendocrine malignancies." in: **Cancer**, Vol. 67, Issue 3, pp. 619-33, (1991) (PubMed).

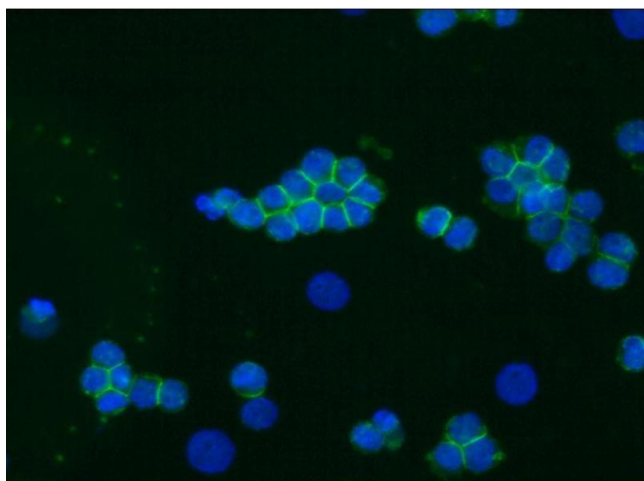There are more publications referencing this product on: Product page
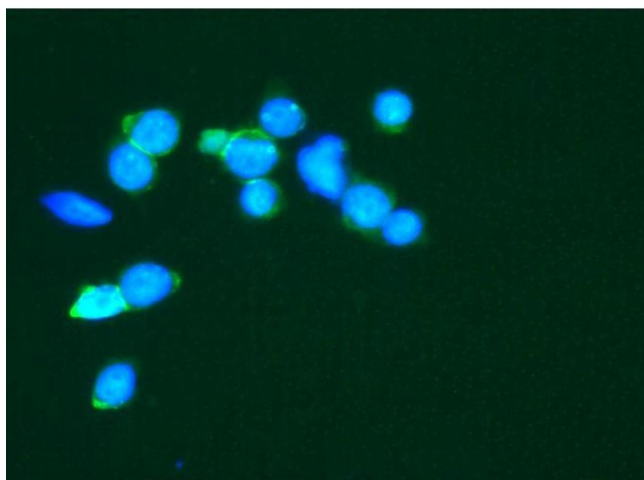
Images

Image 1.

Image 2.