

## Product datasheet for **BM6039P**

### Reticulon 1 (RTN1) (Isoform RTN1-A/B) Mouse Monoclonal Antibody [Clone ID: RNL-2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	RNL-2
Applications:	FC, IF, IHC, WB
Recommended Dilution:	<b>Immunoblotting.</b> <b>Flow Cytometry.</b> <b>Immunocytochemistry.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections.</b> <i>Recommended Dilutions:</i> 1/25-1/200 for Flow Cytometry, and for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent and 1/100-1/1000 for Immunoblotting.
Reactivity:	Human, Monkey, Rabbit
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The small cell lung cancer cell line NCI-H82.
Specificity:	<i>RNL-2</i> recognizes an epitope located within the region of amino acids 421-589 of the neuroendocrine specific protein Reticulon-1A (NSP-A), which is also present in the N-terminal part of Reticulon-1B (NSP-B). In normal tissues, RNL-2 reacts with brain Purkinje cells, pancreatic islet cells, cells in the pituitary gland and some (peripheral) nerve fibers. In addition, a few epithelia show positive staining.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated



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<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Shelf life: One year from despatch.
<b>Gene Name:</b>	reticulon 1
<b>Database Link:</b>	<a href="#">Entrez Gene 6252 Human Q16799</a>
<b>Background:</b>	<p>Recently, a novel gene family has been identified and characterized, designated the Reticulons because the proteins encoded by these genes are anchored to the membranes of the endoplasmic reticulum. Reticulon-1 was formerly designated NSP for Neuroendocrine-Specific-Protein, because it is specifically expressed in neural and neuroendocrine tissues. The NSP-gene has been mapped by fluorescence in situ hybridization to human chromosome 14q21-q22. The NSP-gene encodes three overlapping proteins, i.e. Reticulon-1A (NSPA), Reticulon-1B (NSP-B), and Reticulon-1C (NSPC). These proteins were found to be anchored to membranes of the endoplasmic reticulum through their common carboxy-terminal regions. Reticulon-1A is a protein with a molecular weight (MW) of about 135 kDa, which occurs in various isoforms presumably depending on the degree of phosphorylation of serine residues. In lung cancer diagnosis Reticulon-1A appeared to be a reliable marker for the detection of neuroendocrine differentiation, since most of the small cell lung carcinoma (SCLC) and carcinoid tumors showed expression of Reticulon-1A. Reticulon-1B is a phosphoprotein with a MW of 45 kDa and is restricted to the lung cancer cell line NCI-H82. Reticulon-1B is so far not found in human tissues. Reticulon-1C is a protein with a MW of 23 kDa which is not phosphorylated and is found with Reticulon-1A in SCLC (cell lines) and not in non-SCLC (cell cultures).</p>
<b>Synonyms:</b>	Reticulon-1, RTN1, NSP, Neuroendocrine-specific protein