

## Product datasheet for **UM500067CF**

### CD56 (NCAM1) Mouse Monoclonal Antibody [Clone ID: UMAB83]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB83
Applications:	10k-ChIP, IHC, WB
Recommended Dilution:	IHC 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 20-718 of human NCAM1 (NP_851996) produced in HEK293T cells.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	94.4 kDa
Gene Name:	neural cell adhesion molecule 1
Database Link:	<a href="#">NP_851996</a> <a href="#">Entrez Gene 17967 Mouse</a> <a href="#">Entrez Gene 24586 Rat</a> <a href="#">Entrez Gene 4684 Human</a> <a href="#">P13591</a>



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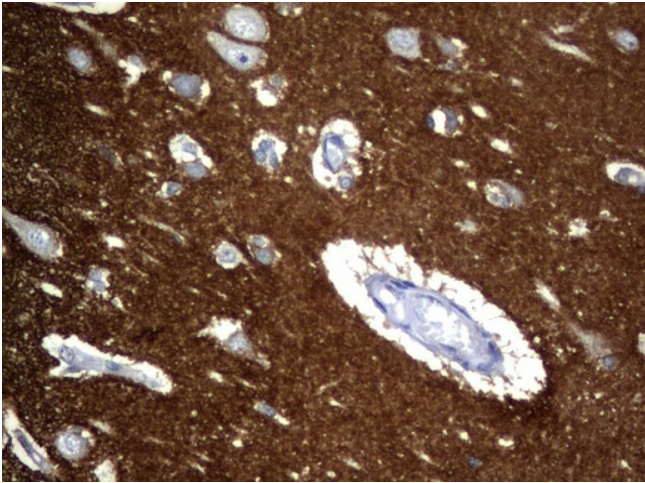
**Background:** This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein has been shown to be involved in development of the nervous system, and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2011]

**Synonyms:** CD56; MSK39; NCAM

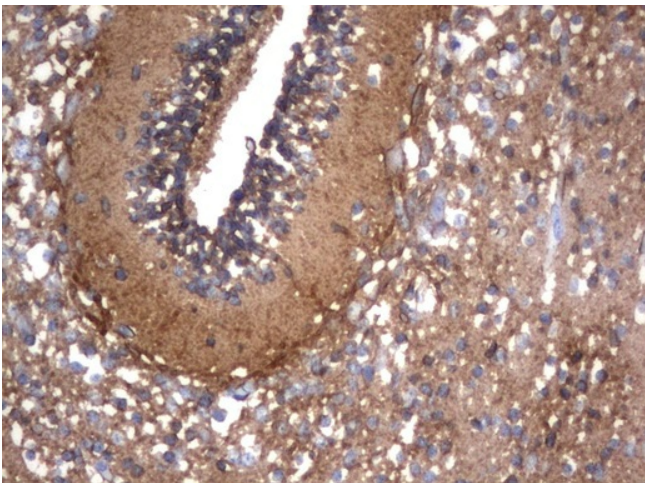
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs), Prion diseases

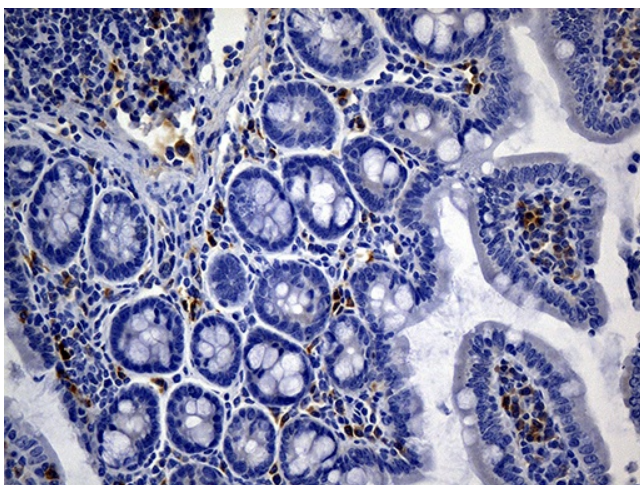
### Product images:



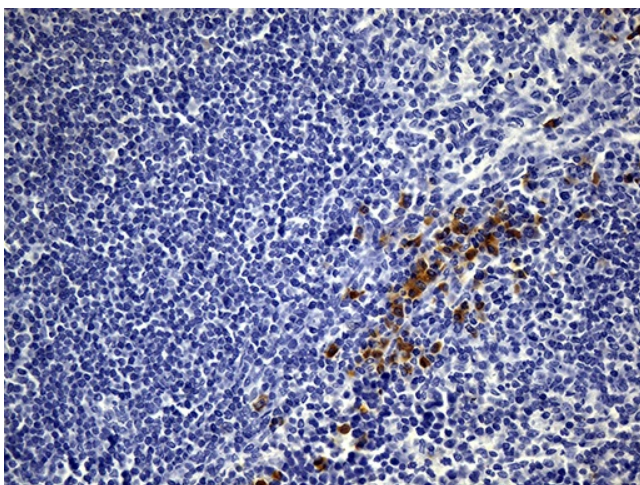
Immunohistochemical staining of paraffin-embedded Human adult brain tissue using anti-NCAM1 mouse monoclonal antibody. ([UM500067]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



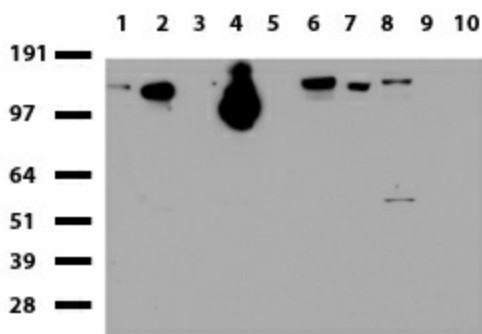
Immunohistochemical staining of paraffin-embedded Human embryonic cerebellum using anti-NCAM1 mouse monoclonal antibody. ([UM500067]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



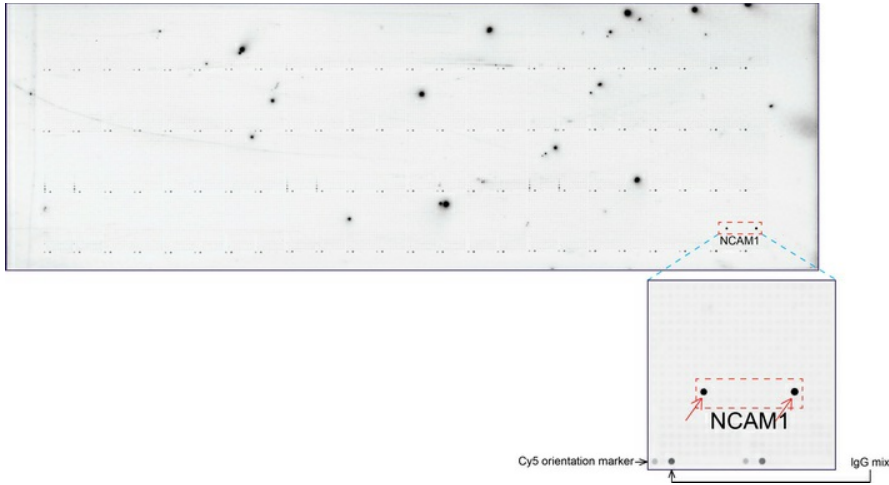
Immunohistochemical staining of paraffin-embedded mouse ascending colon tissue using anti-CD56 (NCAM1) clone UMAB83 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [UM500067]) (1:300).



Immunohistochemical staining of paraffin-embedded mouse spleen tissue using anti-NCAM1 clone UMAB83 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [UM500067]) (1:300)



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid 9: Colon, 10: Spleen). Dilution: 1:500.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-NCAM1 mouse monoclonal antibody ([UM500067]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.