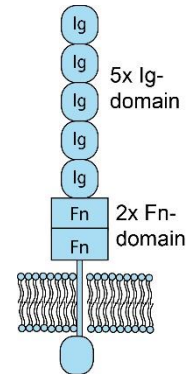


## Anti-Neural Cell Adhesion Molecules 1 (NCAM-1)

**Catalogue no.:** Q55  
**Clone name:** 10B10  
**Product:** VHH directed against Neural cell adhesion molecules 1 (NCAM1) / CD56

**Target:** The Neural Cell Adhesion Molecule 1 (NCAM-1, UniProtKB [P13591](#)) is a glycoprotein expressed on the membranes of neurons, glia and muscle cells <sup>1</sup>. However, it is also found to be expressed in cells of the immune system (NK cells, T-cells and dendritic cells) <sup>2</sup>. There are 4 types of NCAM-1 of which one variant is soluble, while the others or linked to the plasma membrane via a GPI-anchor (120 kDa) or via a transmembrane domain (140 and 180 kDa). All types contain the 5x Ig-like domains and 2x Fn-like domains. NCAM-1 functions in cell-cell adhesion via binding to extracellular matrix protein agrin and several proteoglycans <sup>3</sup>. In addition, its functioning is regulated via attachment of polysialic acid to NCAM, generating PSA-NCAM <sup>4</sup>.



**Source:** Recombinant monoclonal VHH (*Llama glama*), purified from *S.cerevisiae*. Immunization with FSHD patient material. Phage-display selection on cells and captured ectodomain with total elution.

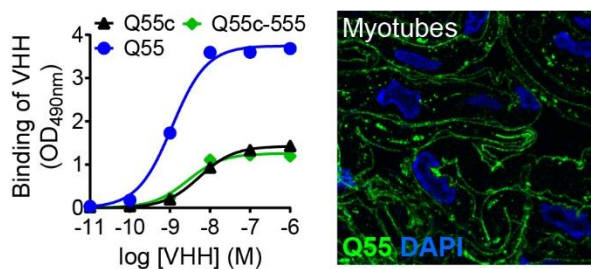
**Specificity:** Human NCAM-1.

**Formulation:** Frozen 0.2 µm filtered solution of VHH in PBS.

**Storage:** Shipped on blue ice. Store at 4°C or -20°C (aliquots). Addition of 0.02% sodiumazide is optional.

**Applications:** ELISA, IF

**Examples:**



Binding of Q55, Q55c and Q55c-Hylite555 to recombinant NCAM-1 in ELISA or to NCAM-1 in myotubes in IF.

**Products:**

Cat. No.	Target	Tag	Label
Q55	NCAM	Tagless	No label
Q55c	NCAM	C-direct	No label
Q55c-lab	NCAM	C-direct	Biotin / NOTA / HiLyte488/555 / IRDye800CW

**References:**

- [Dickson et al.](#) (1987) Cell, 50, 1119-1130
- [Rutishauser et al.](#) (1982) PNAS, 79, 685-689
- [Kasper et al.](#) (2000) Nat Struct Biol, 7, 389-393
- [Hildebrandt et al.](#), (2010) Adv Exp Med Biol, 663, 95-109