

## CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

|                       |                                                |                      |           |
|-----------------------|------------------------------------------------|----------------------|-----------|
| <b>Product name</b>   | Nectin-2, Mouse, clone 502-57, FITC conjugated |                      |           |
| <b>Catalog number</b> | HM1052F-100UG                                  |                      |           |
| <b>Lot number</b>     | -                                              | <b>Expiry date</b>   | -         |
| <b>Volume</b>         | 1 ml                                           | <b>Amount</b>        | 100 µg    |
| <b>Formulation</b>    | 0.2 µm filtered in PBS+1%BSA+0.02%NaN3         | <b>Concentration</b> | 100 µg/ml |
| <b>Host Species</b>   | Rat IgG2a                                      | <b>Conjugate</b>     | FITC      |
| <b>Endotoxin</b>      | N.A.                                           | <b>Purification</b>  | Protein G |
| <b>Storage</b>        | 4°C                                            |                      |           |

### Application notes

|             | IHC-F | IHC-P | IF | FC | FS | IA | IP | W |
|-------------|-------|-------|----|----|----|----|----|---|
| Reference # | 1     |       | 2  |    |    |    | 1  | 3 |
| Yes         | •     |       | •  |    |    | •  | •  | • |
| No          |       |       |    |    |    |    |    |   |
| N.D.        |       | •     |    | •  | •  |    |    |   |

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IA: HM1052 can be used as a detection antibody.
- W: proteins were separated by SDS-PAGE and electrophoretically transferred onto polyvinylidene fluoride sheets, which were then incubated with primary antibodies. Binding was detected with HRP-conjugated secondary antibodies and Western blotting detection reagents (Ref.3).
- IHC-F: Fixation with PFA or acetone/methanol is recommended.

### General Information

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>      | Nectin (originally isolated as poliovirus receptor-related protein (PRR)) is a cell-cell adhesion molecule of the immunoglobulin supergene family. Nectin is colocalized with afadin at cadherin-based cell-cell adherence junctions in various tissues and cell lines. The nectin family consist of nectin-1, nectin-2 and nectin-3. Nectin-2 also known as PRR2 or CD112 is a plasma membrane adhesion molecule localized at adherens junctions which is widely expressed in various cell lines including neuronal, endothelial, epithelial and hematopoietic cells. Next to its role in adherens junctions it functions as alphaherpes virus receptor and acts also as intercellular adhesion molecule and pseudorabies virus receptor. Disruption of mouse nectin-2 leads to infertility of male mice. Monoclonal antibody 502-57 has been raised against the extracellular domain of mouse nectin-2. The antibody cross reacts with human nectin-2. |
| <b>Alias</b>            | Herpes virus entry mediator B, Herpesvirus entry mediator B, HveB, Murine herpes virus entry protein B, mHveB, Nectin cell adhesion molecule 2, Poliovirus receptor homolog, Poliovirus receptor-related protein 2, CD112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene</b>             | Gene name: Nectin2, Mph, Pvr, Pvr12, Pvs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Cross reactivity</b> | Human Nectin-2: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>References</b>       | <ol style="list-style-type: none"> <li>1. Takahashi, K et al; Nectin/PRR: An immunoglobulin-like cell adhesion molecule recruited to cadherin-based adherens junctions through interaction with afadin, a PDZ domain-containing protein. J Cell Biol 1999, 145: 539</li> <li>2. Kawabe, H et al; Pilt, a novel peripheral membrane protein at tight junctions in epithelial cells. J Biol Chem 2001, 276: 48350</li> <li>3. Sugimoto, M et al; The keratin-binding protein Albatross regulates polarization of epithelial cells. JCB 2008; 183: 19</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                            |

**Storage&stability** Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

**Precautions** For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

---

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
12/11/2019

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).