

**MONOCLONAL ANTIBODY TO
MOUSE NECTIN-2 (cross reactive with human nectin-2)
Clone 502-57**



Catalog nr	HM1052 (lot number and expiry date are indicated on the label)
Description	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 alphaherpus 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.
Species	Rat IgG _{2a}
Formulation	1 ml (100 µg/ml) purified antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide.
Application	The antibody can be used for immuno assays, Western blotting, immuno precipitation, flow cytometry and immunohistology on frozen sections.
Use	For flow cytometry, Western blotting and immunohistology 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 1:10. Fixation with PFA or acetone/methanol is recommended.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for 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 with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Sakisaka, T et al; Different behavior of I-afadin and neurabin-II during the formation and destruction of cell-cell adherens junction. <i>Oncogene</i> 1999, <i>18</i>: 16092. 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. <i>J Cell Biol</i> 1999, <i>145</i>: 5393. Kawabe, H et al; Pilt, a novel peripheral membrane protein at tight junctions in epithelial cells. <i>J Biol Chem</i> 2001, <i>276</i>: 48350
Also available	HM1053 Monoclonal antibody against Mouse Nectin-3, clone 103-A1 HM3013 Monoclonal antibody against Rat L-Afadin, clone 3, cross reactive with mouse HM1050 Monoclonal antibody against Mouse JAM-A (JAM-1), clone BV12 HM1056 Monoclonal antibody against Mouse JAM-C (JAM-2), clone 19H36 HM1057 Monoclonal antibody against Mouse JAM-C (JAM-2), clone 18F26